

Supplementary Materials for
**Bioinspired large Stokes shift small molecular dyes for
biomedical fluorescence imaging**

Hao Chen *et al.*

Corresponding author: Zhen Cheng, zcheng@simm.ac.cn; Hong Liu, hliu@simm.ac.cn

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Supplementary Text
Figs. S1 to S12
Table S1
Legends for movies S1 to S3
NMR and MS spectrum data

Other Supplementary Material for this manuscript includes the following:

Movies S1 to S3

General Information

All air and moisture-sensitive reactions were carried out in flame-dried glassware under a nitrogen atmosphere. Reactive liquid compounds were measured and transferred by gas-tight syringes and were added to the reaction flask through rubber septa. Tetrahydrofuran (THF) was freshly distilled from sodium benzophenone ketyl. Dichloromethane, toluene, and DMF were distilled from CaH₂. All standard synthesis reagents were purchased from Sigma-Aldrich Chemical Co. (St. Louis, MO) and used without further purification. The cell line was obtained from the American Type Tissue Culture Collection (Manassas, VA). Female athymic nude mice (nu/nu) were purchased from Shanghai Experimental Animal Center (Shanghai). Analytical thin-layer chromatography was performed on glass-backed silica gel plates with an F254 indicator. Compounds were visualized under UV lamp or by developing in iodine, vanillin, phosphomolybdic acid solution or with a potassium permanganate solution followed by heating on a hot plate to approximately 350 °C. Flash chromatography was performed on 230-400 mesh silica gel with technical grade solvents which were distilled prior to use. ¹H NMR spectra were recorded on a Bruker AV400 at 400 MHz as CDCl₃ solutions with tetramethylsilane ($\delta = 0$ ppm) as the internal standard. ¹³C spectra were obtained on the same instruments at 100 MHz with CDCl₃ ($\delta = 77$ ppm) as the internal reference. Chemical shifts are reported in parts per million (ppm). Multiplicities are reported as s (singlet), d (doublet), t (triplet), q (quartet), m (multiplet), dd (doublet of doublet), etc. High-resolution mass spectra were performed on Bruker APEX III 7.0 Tesla Ion Spec 4.7 Tesla FTMS and Thermo Scientific LTQ ORBITRAP XL. Analytical or preparative high-performance liquid chromatography (HPLC) was performed on a DIONEX ultimate 3000 instrument with PDA detection (column: Princeton SPHER-300 C18, 5 μ m, 250 mm \times 4.6 mm or 10.0 mm; mobile phase: water/acetonitrile with 0.1 % TFA).

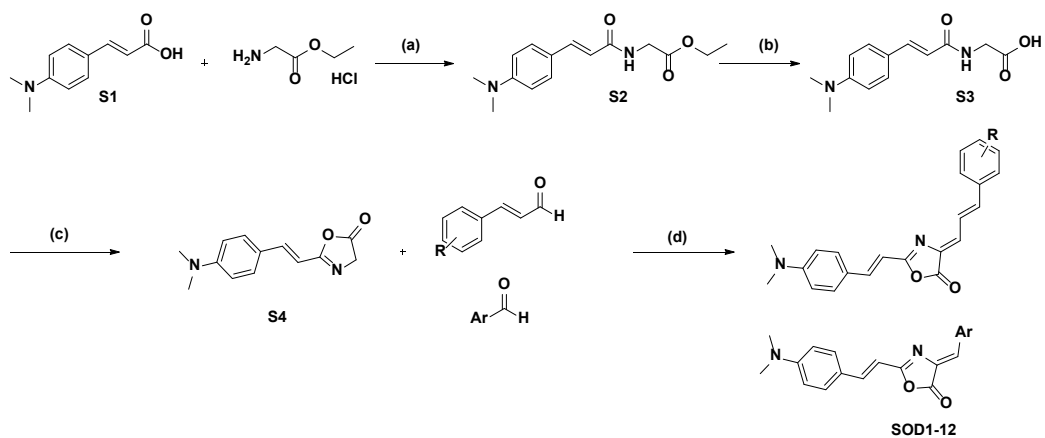


Fig. S1. General Procedure for Preparation of Oxazolone Derivatives:

Reagents and conditions: (a) HATU, DIPEA, DCM, r.t., 16 h; (b) LiOH, CH₃OH/H₂O, r.t., overnight; (c) DCC, DCM, r.t.; (d) DIPEA, DCM, r.t.

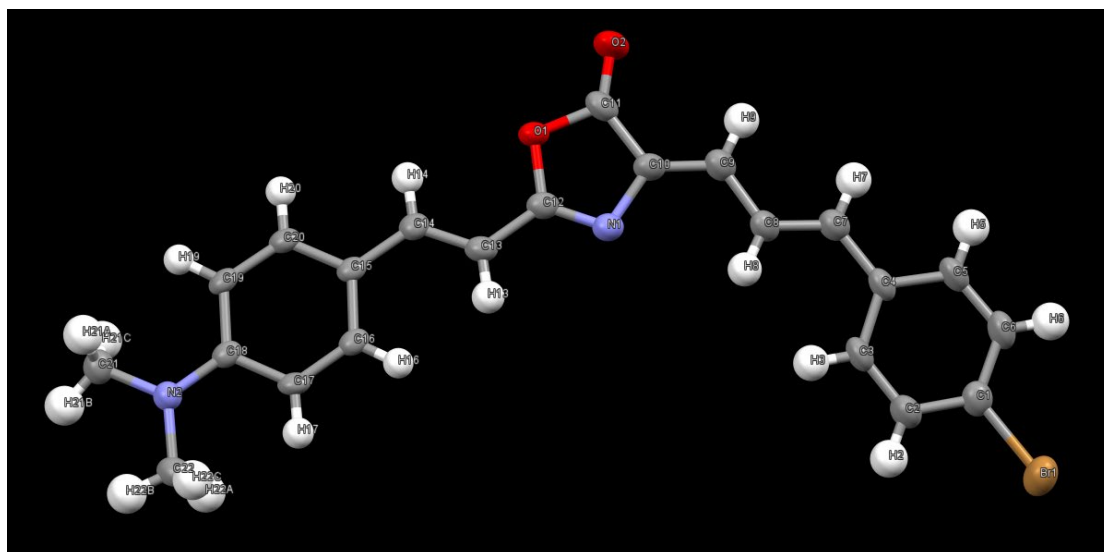


Fig. S2. X-ray diffraction structure analysis of SOD10

Table S1.
Crystal data and structure refinement data of SOD10.

Identification code	SOD10	
Empirical formula	C ₂₂ H ₁₉ Br N ₂ O ₂	
Formula weight	423.30	
Temperature	173(2) K	
Wavelength	1.34138 Å	
Crystal system	Monoclinic	
Space group	P2 ₁	
Unit cell dimensions	a = 4.0033(2) Å b = 9.9206(5) Å c = 23.7028(14) Å	a = 90°. b = 93.855(3)°. g = 90°.
Volume	939.23(9) Å ³	
Z	2	
Density (calculated)	1.497 Mg/m ³	
Absorption coefficient	2.069 mm ⁻¹	
F(000)	432	
Crystal size	0.160 x 0.070 x 0.010 mm ³	
Theta range for data collection	3.252 to 54.909°.	
Index ranges	-4 ≤ h ≤ 4, -12 ≤ k ≤ 12, -28 ≤ l ≤ 25	
Reflections collected	7777	
Independent reflections	3414 [R(int) = 0.0479]	
Completeness to theta = 53.594°	99.5 %	
Absorption correction	Semi-empirical from equivalents	
Max. and min. transmission	0.888 and 0.695	
Refinement method	Full-matrix least-squares on F ²	
Data / restraints / parameters	3414 / 1 / 246	
Goodness-of-fit on F ²	1.010	
Final R indices [I > 2σ(I)]	R1 = 0.0409, wR2 = 0.0848	
R indices (all data)	R1 = 0.0553, wR2 = 0.0906	
Absolute structure parameter	-0.020(19)	
Extinction coefficient	n/a	
Largest diff. peak and hole	0.228 and -0.575 e.Å ⁻³	

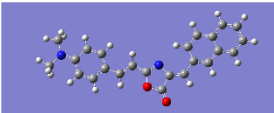
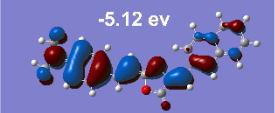
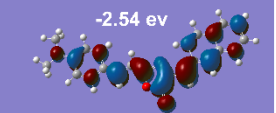
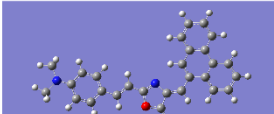
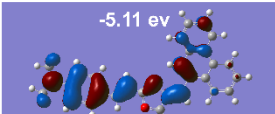
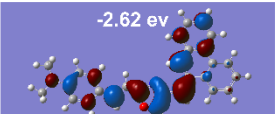
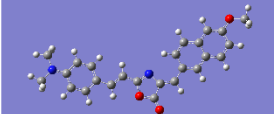
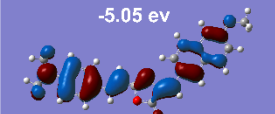
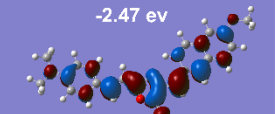
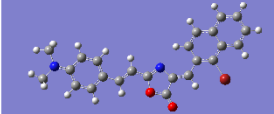
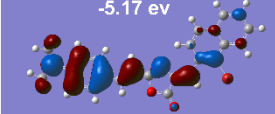
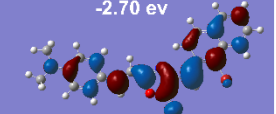
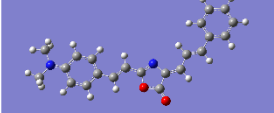
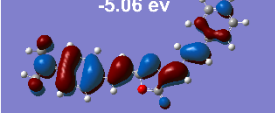
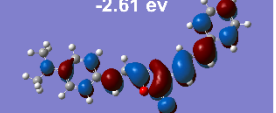
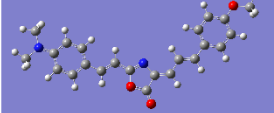
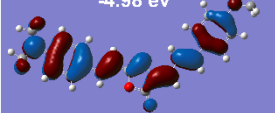
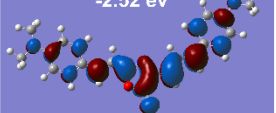
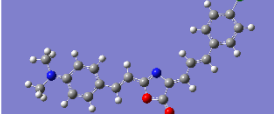
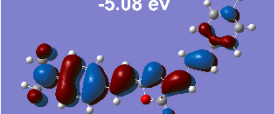
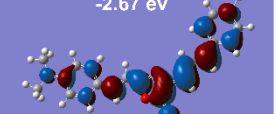
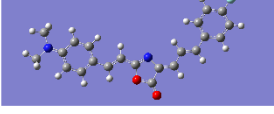
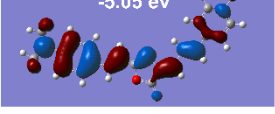
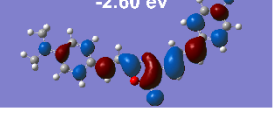
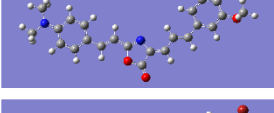
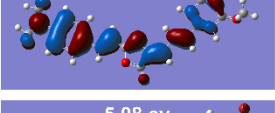
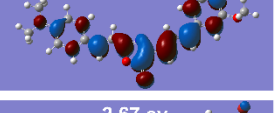
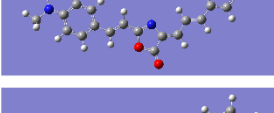
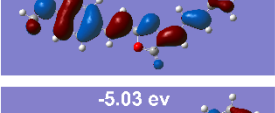
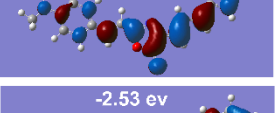
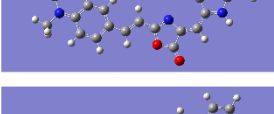
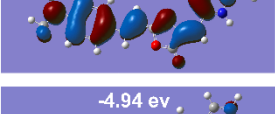
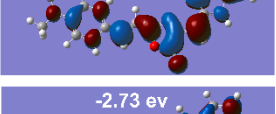
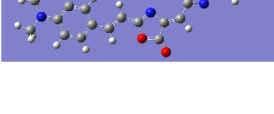
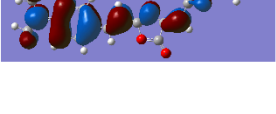
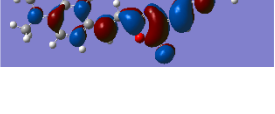
	Optimized geometry	HOMO	LUMO	Bandgap (eV)
1		 -5.12 eV	 -2.54 eV	2.58 (2.28)
2		 -5.11 eV	 -2.62 eV	2.49 (2.22)
3		 -5.05 eV	 -2.47 eV	2.58 (2.29)
4		 -5.17 eV	 -2.70 eV	2.47 (2.20)
5		 -5.06 eV	 -2.61 eV	2.45 (2.25)
6		 -4.98 eV	 -2.52 eV	2.46 (2.24)
7		 -5.08 eV	 -2.67 eV	2.41 (2.23)
8		 -5.05 eV	 -2.60 eV	2.45 (2.25)
9		 -5.03 eV	 -2.59 eV	2.44 (2.23)
10		 -5.08 eV	 -2.67 eV	2.41 (2.22)
11		 -5.03 eV	 -2.53 eV	2.50 (2.23)
12		 -4.94 eV	 -2.73 eV	2.21 (2.20)

Fig. S3. Optimized ground-state (S_0) geometries, calculated HOMO and LUMO of SOD1~12 at the B3LYP/6-31G (d) level. The HOMO and LUMO energy levels, as well as the energy gap are presented. The energy gap in the bracket was calculated from the onset absorption $E_g^{\text{opt}}=1240/\lambda_{\text{a.e.}}$ (Fig. S4).

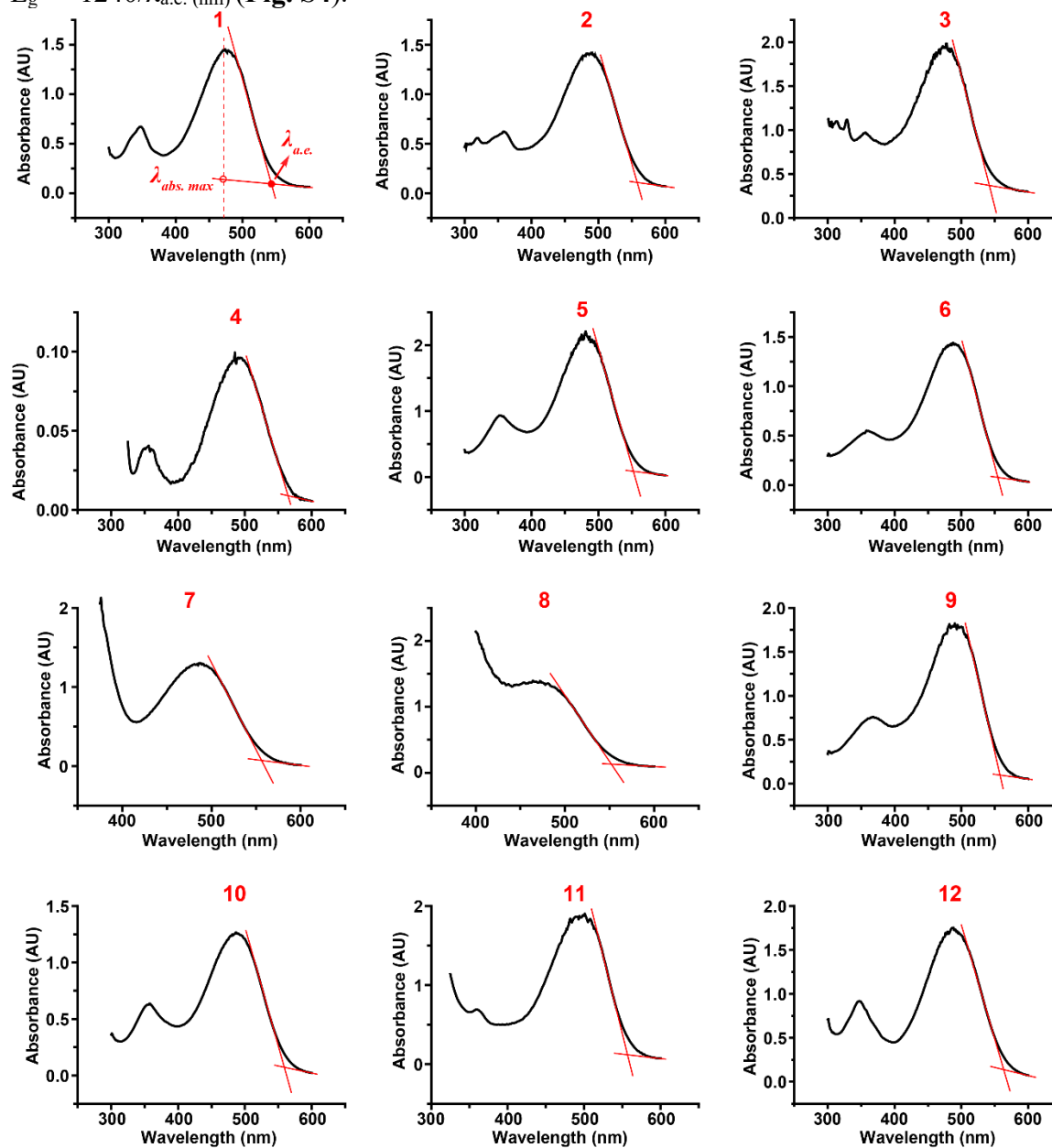


Fig. S4. The UV-Vis Spectrum of SOD 1~12 and the respective bandgap energy estimations.

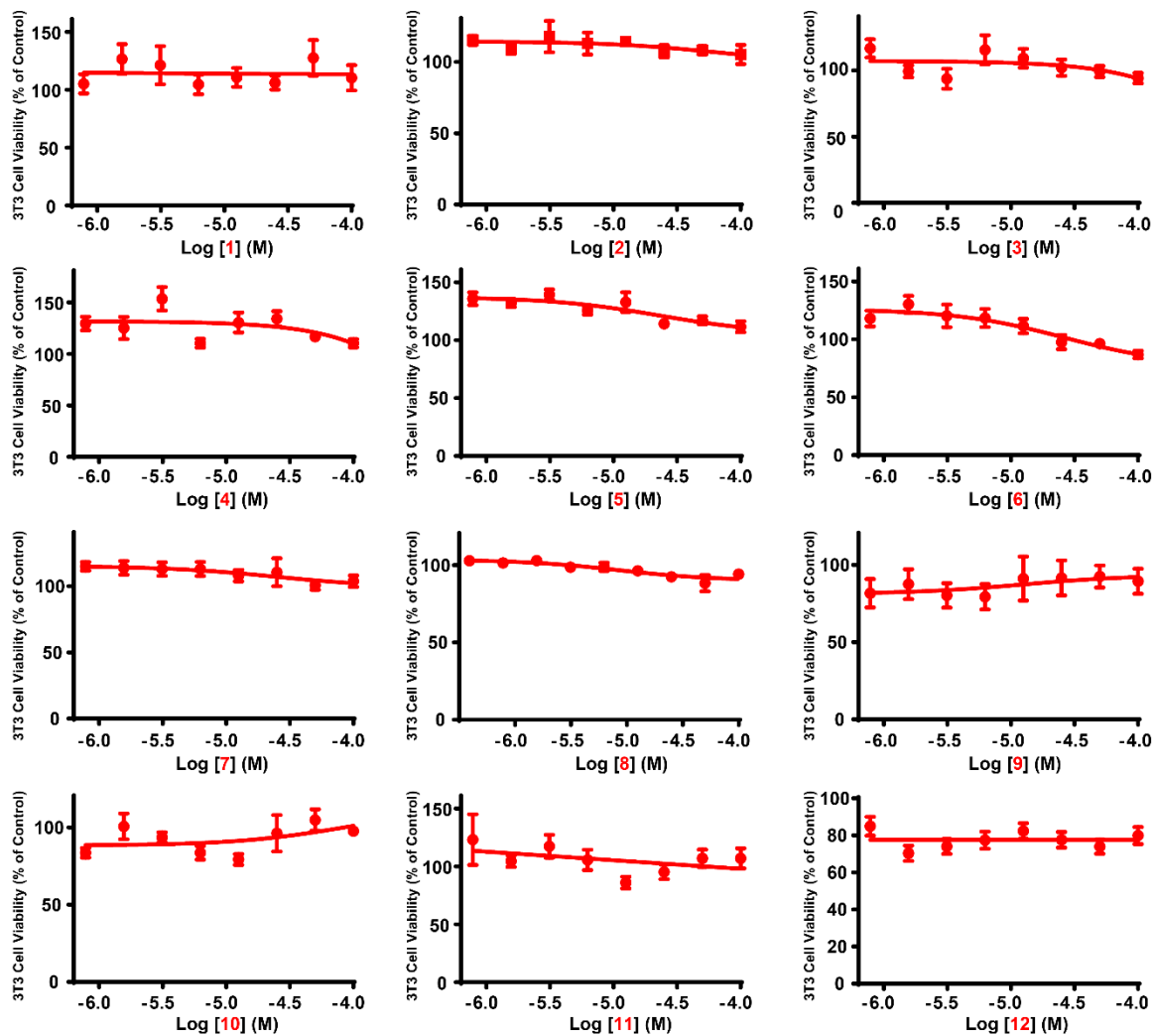
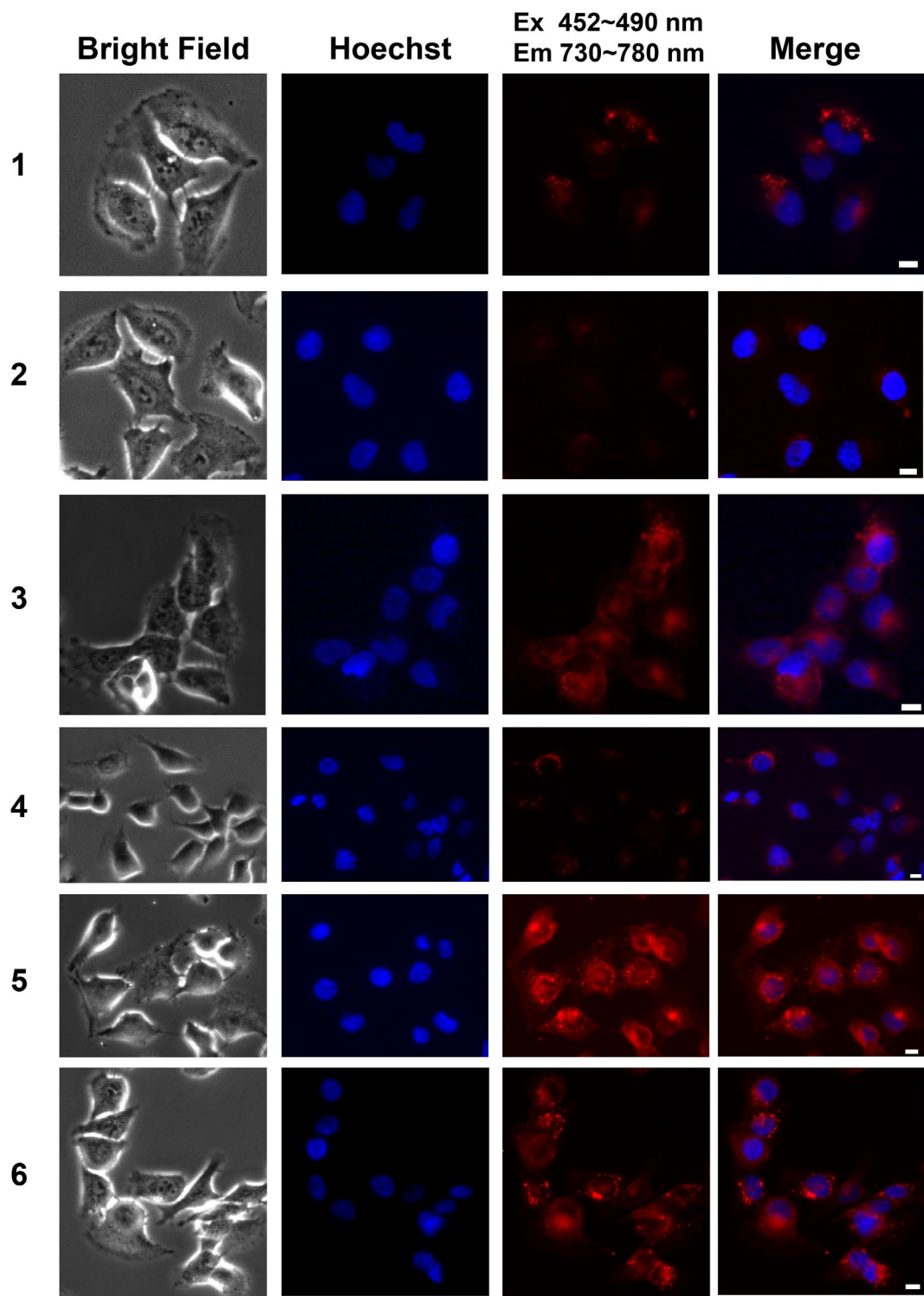


Fig. S5. Cytotoxicity assay of SOD 1~12 towards NIH/3T3 cells.



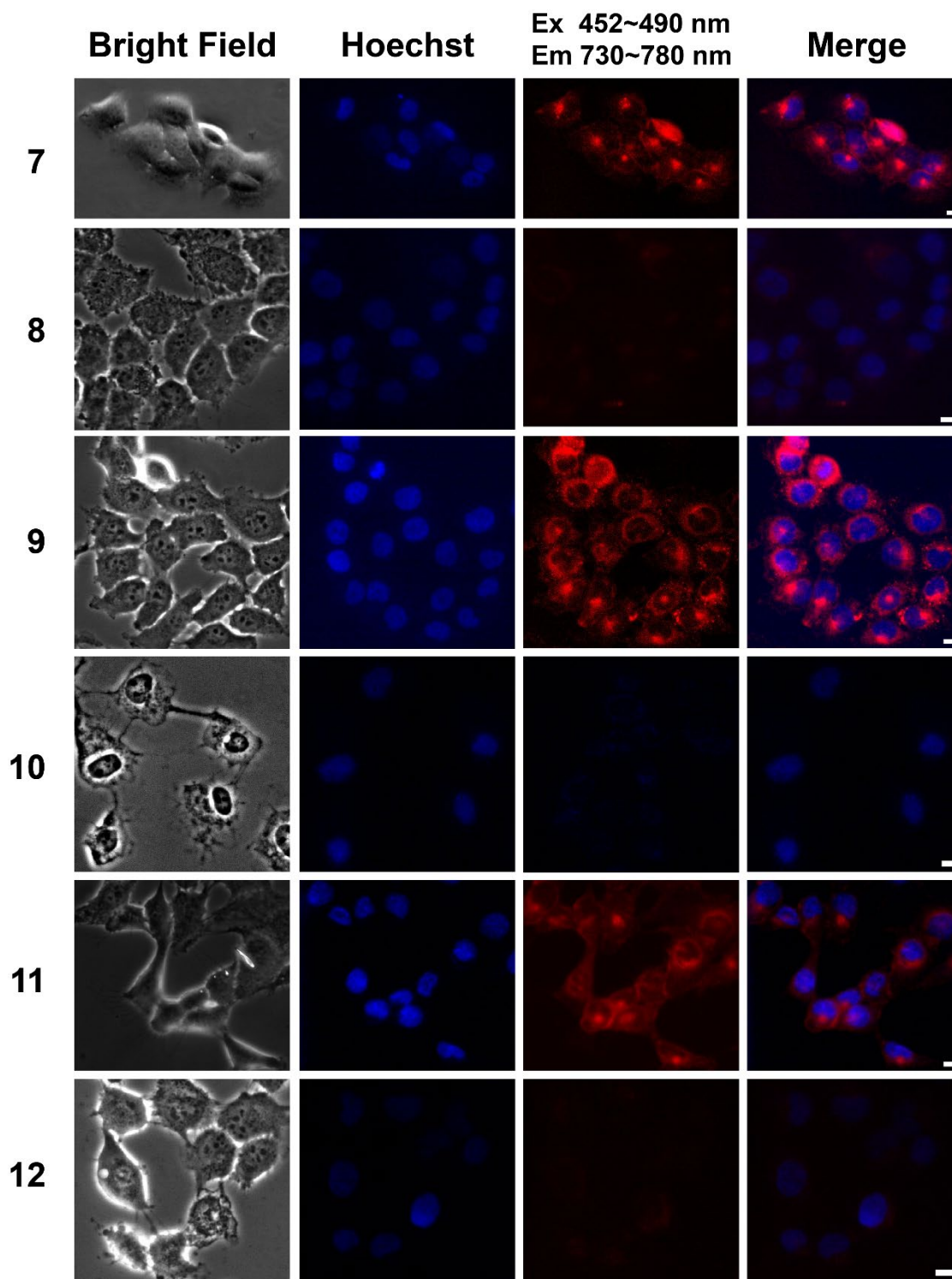


Fig. S6. The NIH-3T3 cell staining images of the SOD derivatives. Blue is the Hoechst in nuclei; red is SOD derivatives (excitation 453-490 nm, emission 730-780 nm). Scar bar: 10 μ m.

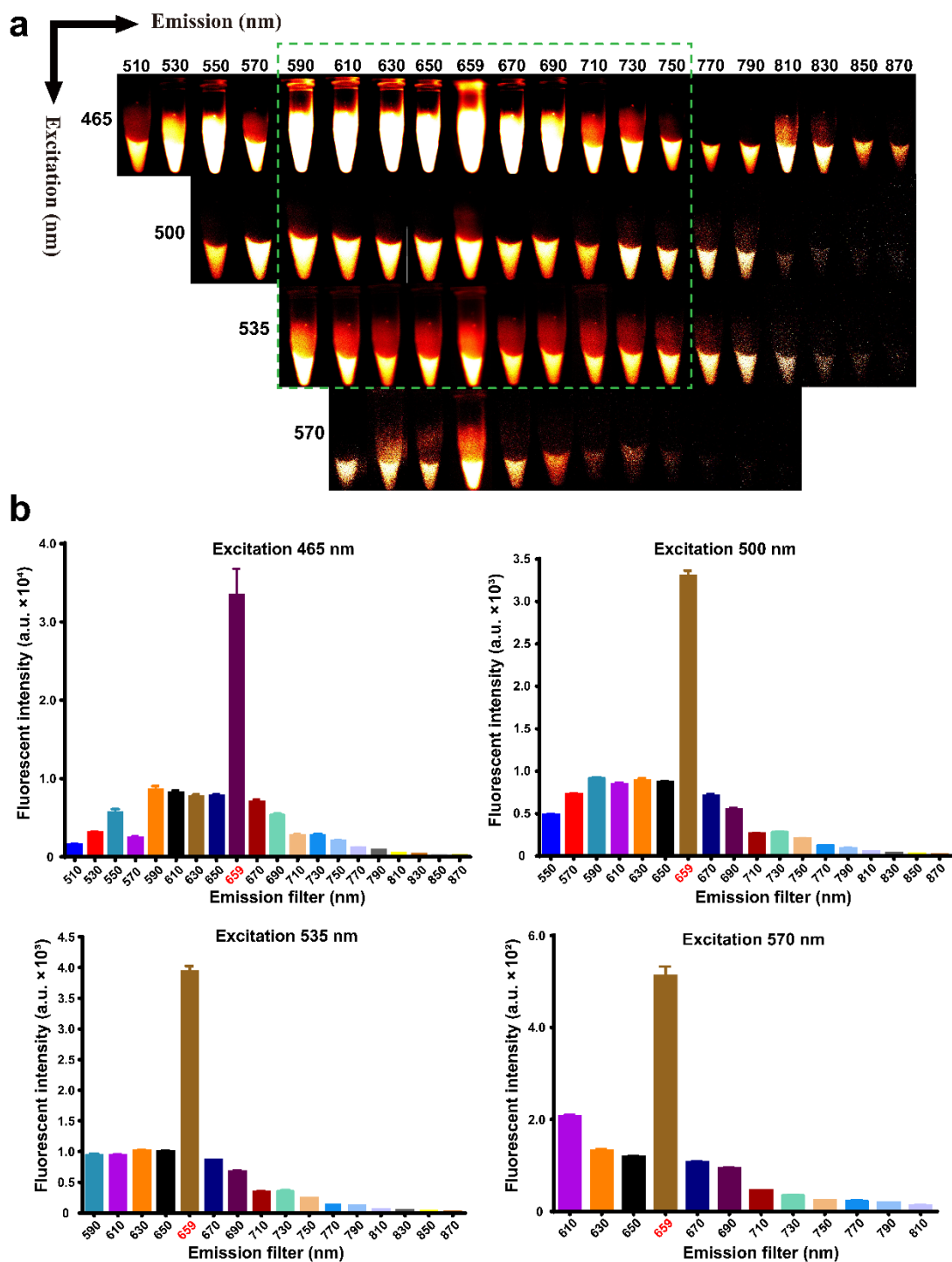


Fig. S7. The best *in vivo* fluorescent imaging filter set selection of SOD9. **a.** The same SOD9 in 1.5 mL Eppendorf tube was imaged under different excitation wavelengths (vertical axis), and the emission light was collected under different cut-off filters (bandwidth ~10 nm, abscissa axis). **b.** The quantifications of (a) under the same excitation wavelength. The best excitation was chosen as 535 nm. The best emission filter was selected as 659 nm (bandwidth ~10 nm).

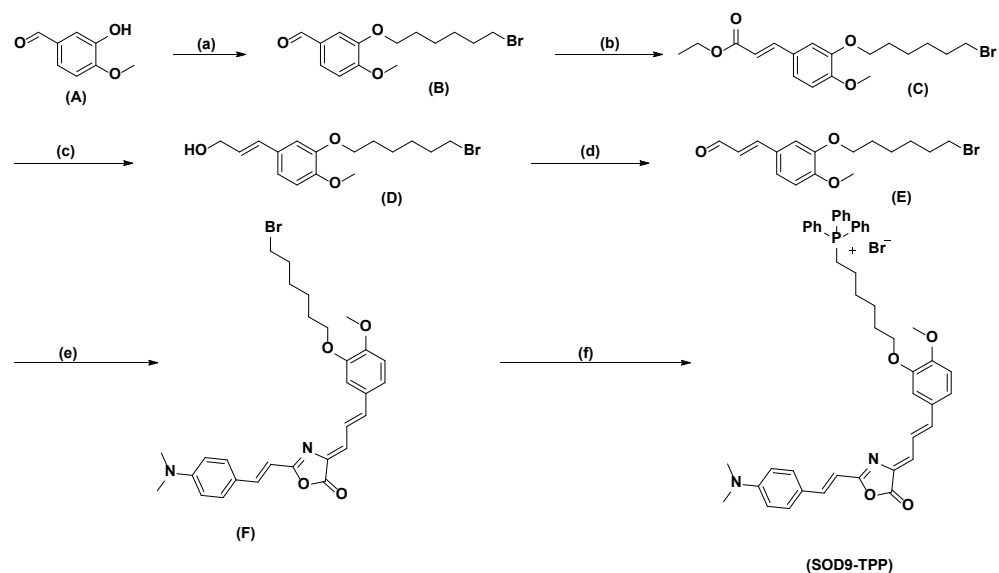


Fig. S8. Synthesis of 6-(5-((1*E*,3*Z*)-3-(2-((*E*)-4-(dimethylamino)styryl)-5-oxoxazol-4(5*H*)-ylidene)prop-1-en-1-yl)-2-methoxyphenoxy)hexyltriphenylphosphonium bromide (SOD9-TPP). Reagents and conditions: (a) 1,6-Dibromohexane, K_2CO_3 , Acetonitrile, $80^\circ C$; (b) Ethyl (triphenylphosphoranylidene)acetate, Et_3N , Acetonitrile, r.t.; (c) $LiAlH_4$, THF, $-20^\circ C$; (d) MnO_2 , DCM, r.t.; (e) S4, DIPEA, DCM, r.t.; (f) Triphenylphosphine, Toluene, $110^\circ C$.

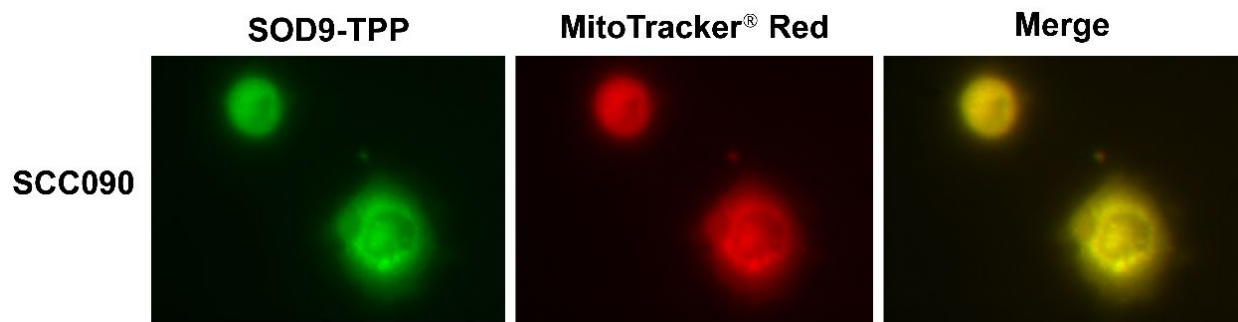


Fig. S9. Fluorescence colocalization images of SOD9-TPP and MitoTracker Red in SCC090. Colocalization of SOD-TPP, mitochondrial specific probe (Mitotracker Red) in SCC090 cell lines.

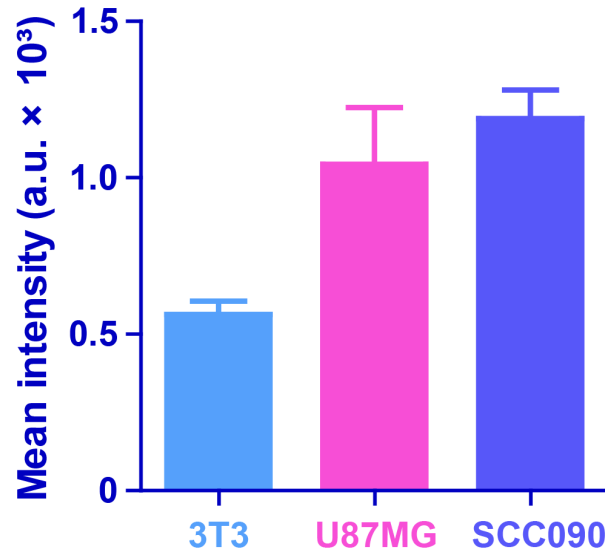
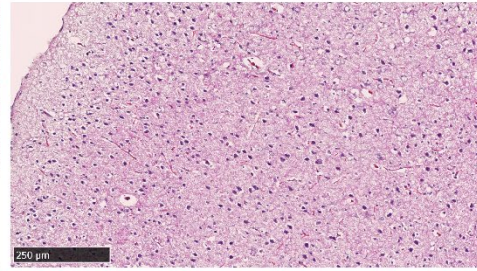
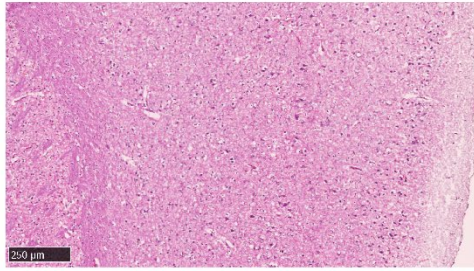


Fig. S10. The SOD9-TPP cell uptake quantification by fluorescent imaging. The mean fluorescent intensities of SOD9-TPP in 3T3, U87MG, and SCC090 cell lines were compared with the same incubation concentration (3 μ M) and time (1 h) (n=6).

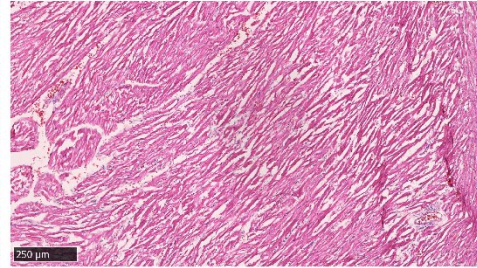
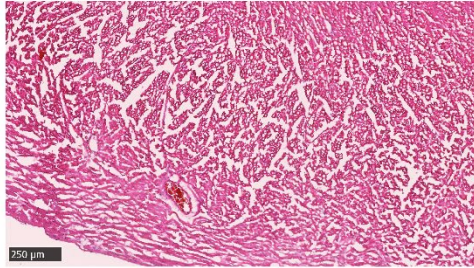
Control

SOD9-TPP

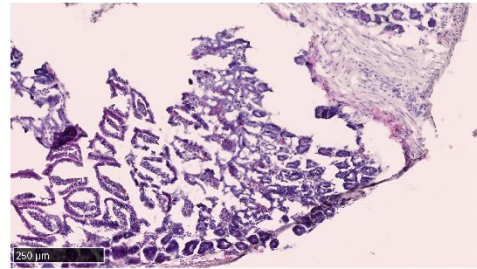
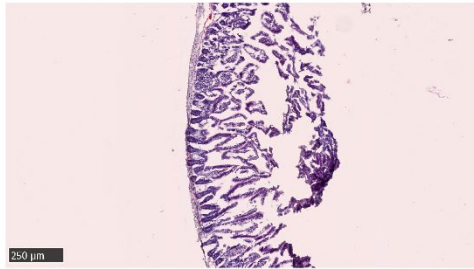
Brain



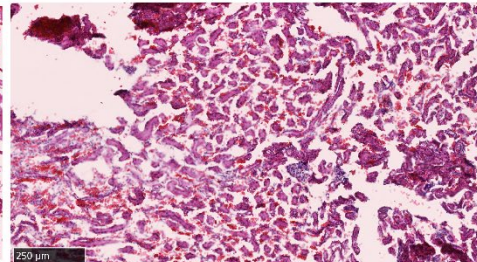
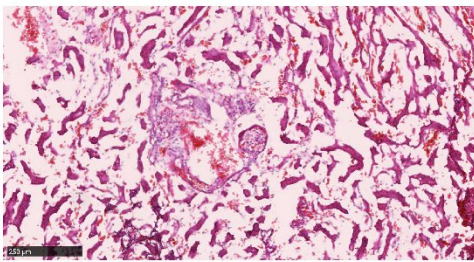
Heart



Intestine



Kidney



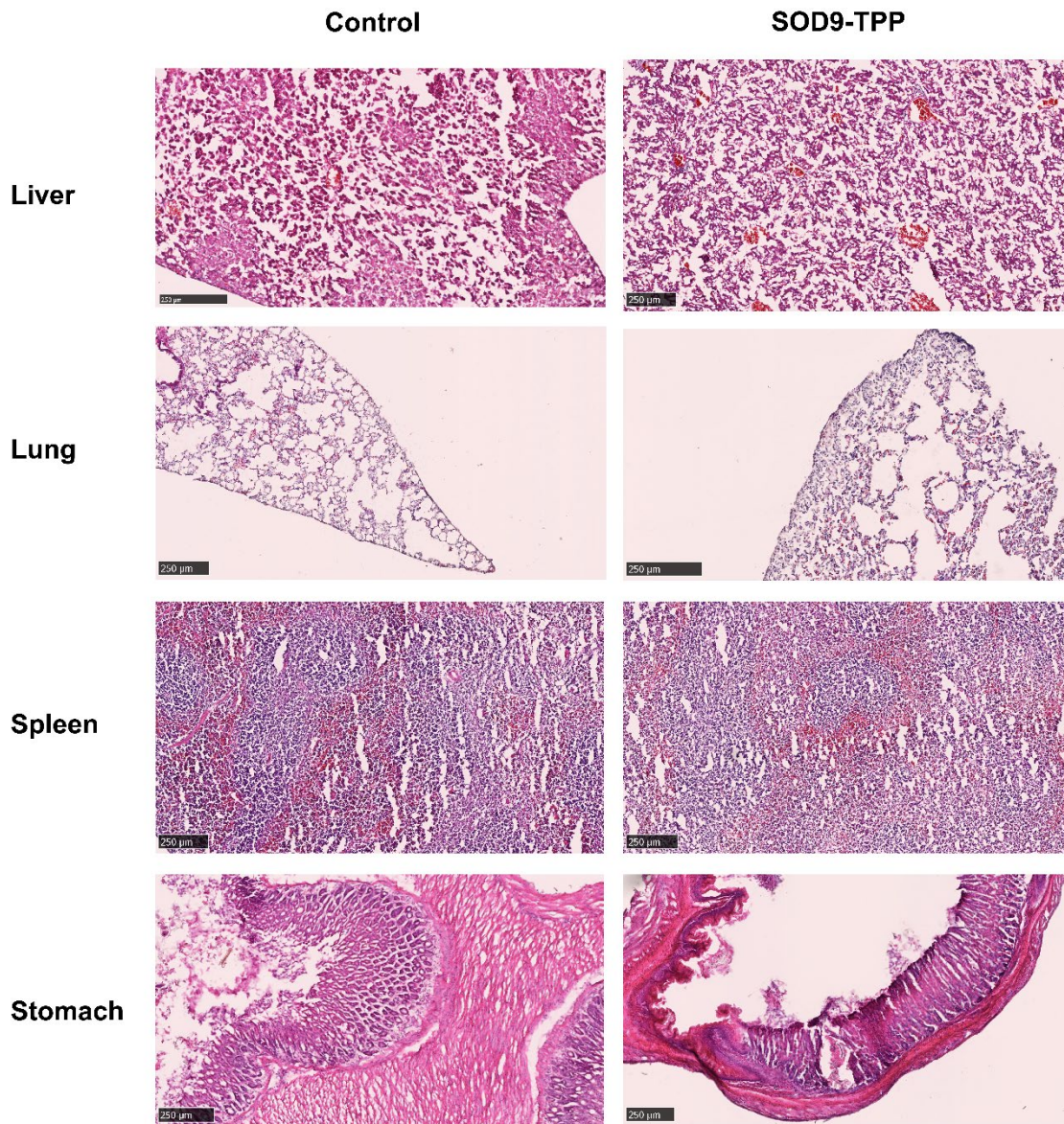


Fig. S11. Histological analysis of the major organs injected with SOD9-TPP. Representative H&E images of major organs including brain, heart, intestine, kidney, liver, lung, spleen, and stomach were collected from the mice treated with pH 7.4 PBS (Control group) or SOD9-TPP (SOD9-TPP group, 24 h post-injection, 5.0 mg/kg). No obvious organ damage or lesion was observed for SOD9-TPP injected mice. Scale bar: 250 μm .

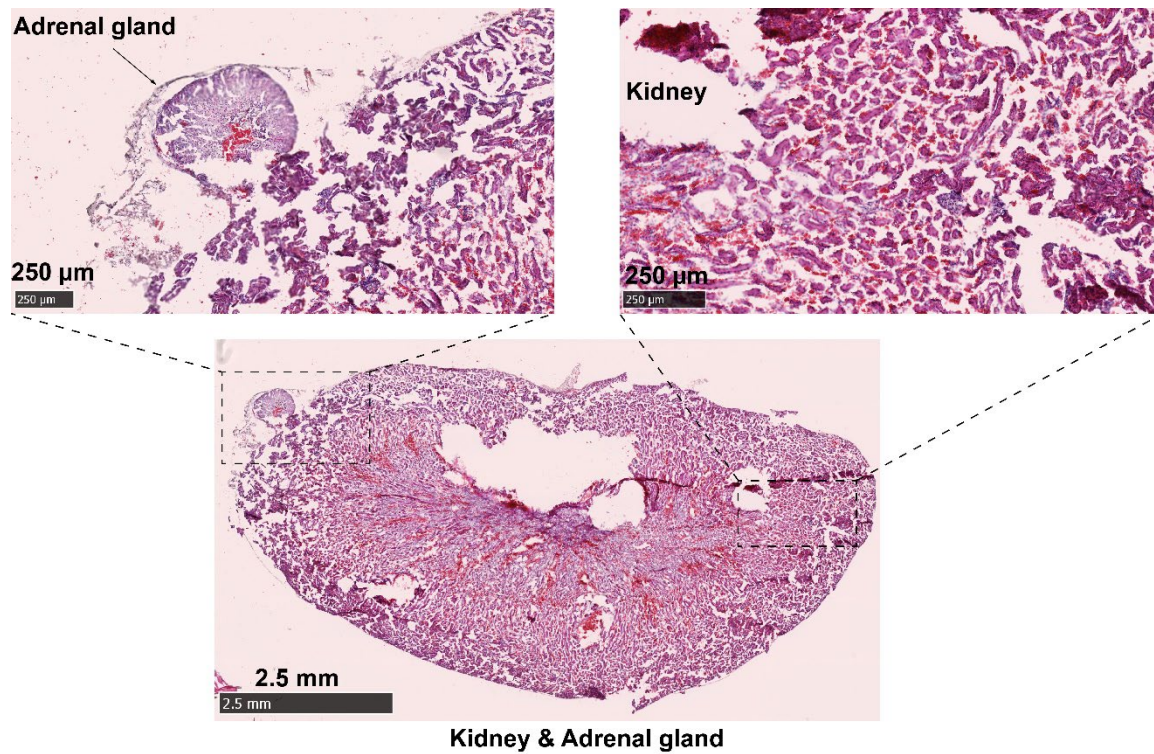


Fig. S12. Histological analysis of kidney and adrenal gland at the main paper Fig. 4g. The histological analysis identified the adrenal gland.

Movie S1. Real-time imaging of SOD9-TPP in the NIH/3T3 cells' mitochondria (100× objective lens, excitation 453-490 nm, emission 730-780 nm).

Movie S2. Real-time monitoring of SOD9-TPP in the orthotopic HNSCC (SCC090) mouse with confocal fluorescent endomicroscopy after 2h i.v. injection (excitation 488 nm laser, emission 540 nm long-pass filter). SOD9-TPP was found in the tumor tissues.

Movie S3. Real-time monitoring of SOD9-TPP in the skull-opened mouse brain with confocal fluorescent endomicroscopy after i.v. injection (excitation 488 nm laser, emission 540 nm long-pass filter). SOD9-TPP was found in the blood vessel and the brain tissues.

General synthesis procedure and the chemical characterization of oxazolone derivatives (Fig. S1):

Ethyl (*E*)-(3-(4-(dimethylamino)phenyl)acryloyl)glycinate (S2).

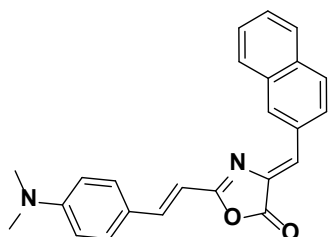
To a solution of **S1** (10.00 g, 52.29 mmol) in 50 mL dichloromethane was added ethyl glycinate hydrochloride (7.30 g, 52.29 mmol), HATU (18.91 g, 78.44 mmol), and DIPEA (21.61 mL, 130.73 mmol). The resulting mixture was stirred at room temperature for 16 h. After this period, saturated aqueous NH₄Cl solution was added and extracted twice with dichloromethane. The combined organic layer was washed with brine, dried over anhydrous Na₂SO₄, and concentrated under vacuum. The residue was purified by silica gel column using 30% ethyl acetate in petroleum ether as eluent to afford the title compound as a primrose yellow solid.

(*E*)-(3-(4-(dimethylamino)phenyl)acryloyl)glycine (S3).

To a solution of **S2** (11.00 g, 39.81 mmol) in 20 mL methanol and 10 mL H₂O was added lithium hydrate (7.96 g, 199.03 mmol), and the reaction was stirred at room temperature overnight. After the reaction was completed, the mixture was concentrated under a vacuum and diluted with water. The diluted solution was adjusted to neutral with 1N hydrochloric acid. The precipitate was filtered using a Buchner funnel and washed with diethyl ether to afford the title compound as a yellow solid.

(*E*)-2-(4-(dimethylamino)styryl)oxazol-5(4*H*)-one (S4).

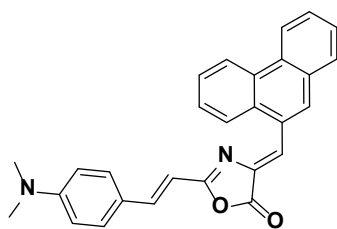
A solution of **S3** (5.00 g, 20.14 mmol) in 30 mL dichloromethane was added DCC (6.23 g, 30.21 mmol). The reaction was stirred at room temperature overnight. The resulting suspension was filtered, and the precipitate was washed with cold ethanol to afford the title compound as an orange solid.



(*Z*)-2-((*E*)-4-(dimethylamino)styryl)-4-(naphthalen-2-ylmethylene)oxazol-5(4*H*)-one (SOD1).

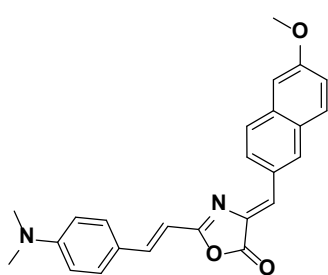
To a solution of **S4** in 30 mL dichloromethane was added 2-naphthaldehyde (339.14 mg, 2.17 mmol) and DIPEA (538.32 μL, 3.26 mmol). The resulting mixture was stirred at room temperature overnight. Then the solvent was removed and the residue was

purified by flash column chromatography using dichloromethane/methanol (100:1) as an eluent to afford the title compound as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 8.45 (s, 1H), 8.41 (dd, $J = 8.7, 1.7$ Hz, 1H), 7.95 – 7.91 (m, 1H), 7.89 (d, $J = 8.7$ Hz, 1H), 7.87 – 7.83 (m, 1H), 7.67 (d, $J = 15.9$ Hz, 1H), 7.55 – 7.53 (m, 1H), 7.53 – 7.49 (m, 3H), 7.25 (s, 1H), 6.72 (d, $J = 8.7$ Hz, 2H), 6.64 (d, $J = 16.0$ Hz, 1H), 3.07 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 168.1, 164.4, 152.2, 144.7, 134.5, 134.3, 133.4, 133.3, 132.0, 130.3, 129.2, 128.9, 128.7, 127.9, 127.9, 127.8, 126.7, 122.8, 112.1, 107.5, 40.3. **HRMS** (ESI) m/z $[\text{M} + \text{H}]^+$ calcd for $\text{C}_{24}\text{H}_{21}\text{N}_2\text{O}_2$ 369.1598, found 369.1608.



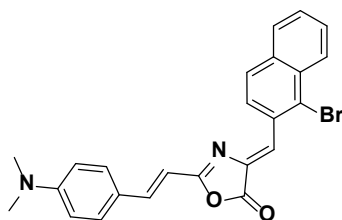
(Z)-2-((E)-4-(dimethylamino)styryl)-4-(phenanthren-9-ylmethylene)oxazol-5(4H)-one (SOD2).

Compound **SOD2** was prepared in a similar manner as described for compound **SOD1** as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 9.13 (s, 1H), 8.76 (d, $J = 9.7$ Hz, 1H), 8.68 (d, $J = 8.2$ Hz, 1H), 8.34 (d, $J = 9.8$ Hz, 1H), 8.09 – 8.05 (m, 1H), 7.96 (s, 1H), 7.74 – 7.67 (m, 4H), 7.67 – 7.60 (m, 1H), 7.56 – 7.48 (m, 2H), 6.73 (d, $J = 8.9$ Hz, 2H), 6.67 (d, $J = 15.9$ Hz, 1H), 3.07 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 167.9, 165.1, 152.1, 144.9, 135.5, 133.3, 131.5, 131.4, 130.7, 130.7, 130.4, 128.5, 128.4, 127.4, 127.1, 127.0, 124.6, 123.9, 123.4, 122.7, 112.4, 107.7, 40.5. **HRMS** (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{28}\text{H}_{22}\text{O}_2\text{N}_2$ 418.1676, found 418.1668.



(Z)-2-((E)-4-(dimethylamino)styryl)-4-((6-methoxynaphthalen-2-yl)methylene)oxazol-5(4H)-one (SOD3).

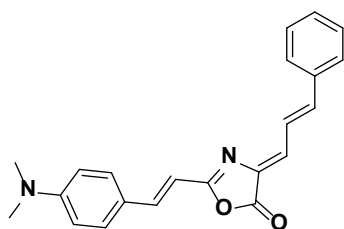
Compound **SOD3** was prepared in a similar manner as described for compound **SOD1** as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 8.45 – 8.33 (m, 2H), 7.80 (dd, $J = 22.7, 8.7$ Hz, 2H), 7.65 (d, $J = 16.0$ Hz, 1H), 7.50 (d, $J = 8.4$ Hz, 2H), 7.23 (s, 1H), 7.20 – 7.09 (m, 2H), 6.73 (d, $J = 8.2$ Hz, 2H), 6.63 (d, $J = 15.9$ Hz, 1H), 3.95 (s, 3H), 3.07 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 168.2, 163.9, 159.5, 159.5, 151.9, 144.2, 135.9, 133.5, 133.3, 130.9, 130.2, 129.8, 129.5, 128.9, 128.7, 127.5, 119.5, 112.3, 107.8, 106.1, 55.6, 40.5. **HRMS** (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{25}\text{H}_{22}\text{O}_3\text{N}_2$ 398.1625, found 398.1629.



(Z)-2-((E)-4-(dimethylamino)styryl)-4-((1-bromonaphthalen-2-yl)methylene)oxazol-5(4H)-one (SOD4).

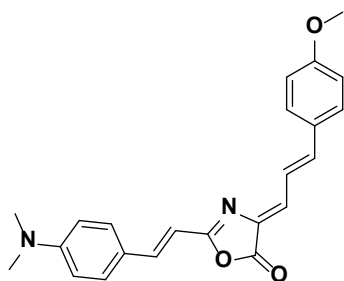
Compound **SOD4** was prepared in a similar manner as described for compound **SOD1** as a black solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 8.85 (d, $J = 8.7$ Hz, 1H), 8.41 (d, $J = 8.2$ Hz, 1H), 7.93 (s, 1H), 7.85 (t, $J = 7.8$ Hz, 2H), 7.71 (d, $J = 16.0$ Hz, 1H), 7.60 (d, $J = 8.0$ Hz, 4H), 7.19 (s, 2H), 6.73 (d, $J = 16.0$ Hz, 1H), 3.13 (s,

6H). ^{13}C NMR (126 MHz, Chloroform-*d*) δ 167.7, 145.5, 136.0, 135.8, 135.3, 135.0, 134.7, 134.1, 134.0, 132.7, 132.2, 130.5, 128.7, 128.3, 128.2, 127.9, 127.8, 127.3, 112.1, 107.2, 40.3. HRMS (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{24}\text{H}_{19}\text{O}_2\text{N}_2\text{Br}$ 446.0624, found 446.0631.



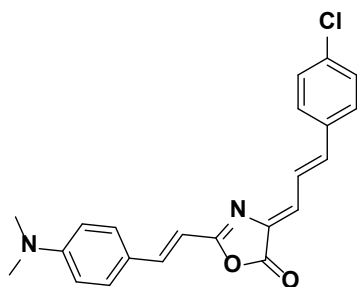
(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-phenylallylidene)oxazol-5(4H)-one (SOD5).

Compound **SOD5** was prepared in a similar manner as described for compound **SOD1** as a red solid. ^1H NMR (400 MHz, Chloroform-*d*) δ 7.65 – 7.54 (m, 4H), 7.50 – 7.45 (m, 2H), 7.42 – 7.31 (m, 3H), 7.06 (d, J = 15.7 Hz, 1H), 6.99 (dd, J = 11.7, 1.0 Hz, 1H), 6.72 (d, J = 8.5 Hz, 2H), 6.54 (d, J = 15.9 Hz, 1H), 3.06 (s, 6H). ^{13}C NMR (126 MHz, Chloroform-*d*) δ 167.0, 163.2, 152.1, 144.3, 142.7, 136.4, 134.9, 130.2, 130.1, 129.7, 129.0, 127.9, 123.6, 122.9, 112.2, 107.3, 40.3. HRMS (ESI) m/z $[\text{M} + \text{H}]^+$ calcd for $\text{C}_{22}\text{H}_{21}\text{N}_2\text{O}_2$ 345.1598, found 345.1603.



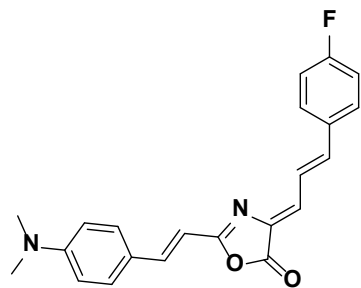
(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-methoxyphenyl)allylidene)oxazol-5(4H)-one (SOD6).

Compound **SOD6** was prepared in a similar manner as described for compound **SOD1** as a red solid. ^1H NMR (400 MHz, Chloroform-*d*) δ 7.59 (d, J = 15.9 Hz, 1H), 7.54 (d, J = 8.6 Hz, 2H), 7.52 – 7.42 (m, 3H), 7.05 (s, 1H), 7.00 (d, J = 11.0 Hz, 1H), 6.91 (d, J = 8.6 Hz, 2H), 6.74 (d, J = 8.3 Hz, 2H), 6.55 (d, J = 15.9 Hz, 1H), 3.85 (s, 3H), 3.06 (s, 6H). ^{13}C NMR (126 MHz, Chloroform-*d*) δ 167.1, 162.7, 161.2, 152.1, 143.8, 142.7, 133.8, 130.9, 130.1, 129.6, 129.3, 122.9, 121.6, 114.6, 112.1, 107.4, 55.6, 40.3. HRMS (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{23}\text{H}_{22}\text{O}_3\text{N}_2$ 374.1625, found 374.1624.



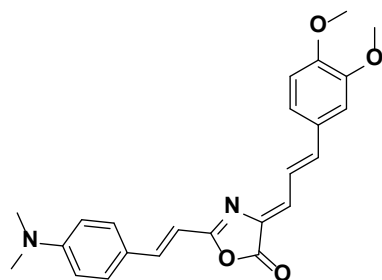
(Z)-4-((E)-3-(4-chlorophenyl)allylidene)-2-((E)-4-(dimethylamino)styryl)oxazol-5(4H)-one (SOD7).

Compound **SOD7** was prepared in a similar manner as described for compound **SOD1** as a red solid. ^1H NMR (400 MHz, Chloroform-*d*) δ 7.63 (d, J = 16.0 Hz, 1H), 7.50 (t, J = 9.1 Hz, 5H), 7.35 (d, J = 8.4 Hz, 2H), 6.98 (t, J = 13.4 Hz, 2H), 6.77 (d, J = 8.2 Hz, 2H), 6.54 (d, J = 15.9 Hz, 1H), 3.07 (s, 6H). ^{13}C NMR (126 MHz, Chloroform-*d*) δ 166.8, 163.4, 144.6, 141.0, 135.5, 135.1, 134.9, 130.3, 129.8, 129.6, 129.5, 129.3, 129.0, 124.1, 112.5, 107.2, 40.5. HRMS (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{22}\text{H}_{19}\text{O}_2\text{N}_2\text{Cl}$ 378.1130, found 378.1137.



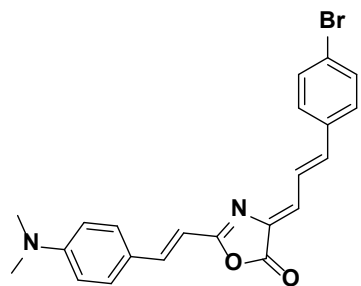
(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-fluorophenyl)allylidene)oxazol-5(4H)-one (SOD8).

Compound **SOD8** was prepared in a similar manner as described for compound **SOD1** as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 7.61 (d, $J = 16.0$ Hz, 1H), 7.58 – 7.54 (m, 2H), 7.54 – 7.48 (m, 1H), 7.48 – 7.45 (m, 2H), 7.07 (t, $J = 8.6$ Hz, 2H), 7.01 (d, $J = 15.6$ Hz, 1H), 6.96 (dd, $J = 11.6$, 1.1 Hz, 1H), 6.72 – 6.67 (m, 2H), 6.52 (d, $J = 15.9$ Hz, 1H), 3.06 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 166.7, 163.5 (d, $J = 254.5$ Hz), 163.1, 162.4, 151.9, 144.3, 141.1, 134.7, 132.5 (d, $J = 3.8$ Hz), 130.1, 129.7, 129.5 (d, $J = 7.6$ Hz), 123.2, 116.0 (d, $J = 21.4$ Hz), 112.2, 107.1, 40.3. **HRMS** (ESI) m/z $[\text{M} + \text{H}]^+$ calcd for $\text{C}_{22}\text{H}_{20}\text{FN}_2\text{O}_2$ 363.1503, found 363.1505.



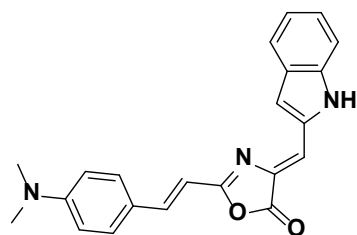
(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(3,4-dimethoxyphenyl)allylidene)-oxazol-5(4H)-one (SOD9).

Compound **SOD9** was prepared in a similar manner as described for compound **SOD1** as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 7.60 (d, $J = 15.9$ Hz, 1H), 7.46 (d, $J = 9.0$ Hz, 2H), 7.43 (d, $J = 11.9$ Hz, 1H), 7.15 (d, $J = 2.0$ Hz, 1H), 7.12 (dd, $J = 8.3$, 1.9 Hz, 1H), 7.04 – 7.00 (m, 1H), 6.99 (d, $J = 5.6$ Hz, 1H), 6.87 (d, $J = 8.3$ Hz, 1H), 6.71 (d, $J = 8.7$ Hz, 2H), 6.54 (d, $J = 15.9$ Hz, 1H), 3.96 (s, 3H), 3.93 (s, 3H), 3.06 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 167.1, 162.8, 152.1, 151.0, 149.5, 144.0, 143.1, 133.7, 130.8, 130.1, 129.5, 122.8, 122.8, 121.6, 112.1, 111.3, 109.3, 107.2, 56.2, 56.1, 40.3. **HRMS** (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{24}\text{H}_{25}\text{N}_2\text{O}_4$ 405.1809, found 405.18097.



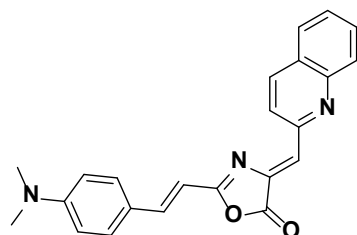
(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-bromophenyl)allylidene)-oxazol-5(4H)-one (SOD10).

Compound **SOD10** was prepared in a similar manner as described for compound **SOD1** as a red solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 7.63 (d, $J = 15.5$ Hz, 1H), 7.59 – 7.53 (m, 1H), 7.50 (t, $J = 9.1$ Hz, 4H), 7.44 (d, $J = 8.3$ Hz, 2H), 6.98 (d, $J = 10.3$ Hz, 1H), 6.95 (d, $J = 6.4$ Hz, 1H), 6.76 (d, $J = 8.3$ Hz, 2H), 6.54 (d, $J = 15.9$ Hz, 1H), 3.07 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 166.8, 163.5, 152.2, 144.6, 140.9, 135.3, 132.6, 132.2, 130.3, 129.4, 129.2, 124.2, 123.8, 122.9, 112.2, 107.1, 40.4. **HRMS** (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{22}\text{H}_{19}\text{O}_2\text{N}_2\text{Br}$ 422.0624, found 422.0618.



(Z)-2-((E)-4-(dimethylamino)styryl)-4-((1H-indol-2-yl)methylene)-oxazol-5(4H)-one (SOD11).

Compound **SOD11** was prepared in a similar manner as described for compound **SOD1** as a black solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 10.51 (s, 1H), 7.65 (s, 1H), 7.62 (d, $J = 8.5$ Hz, 1H), 7.53 – 7.48 (m, 2H), 7.46 (dd, $J = 8.3, 1.1$ Hz, 1H), 7.30 (ddd, $J = 8.1, 6.9, 1.1$ Hz, 1H), 7.15 (s, 1H), 7.12 (ddd, $J = 8.0, 7.0, 1.0$ Hz, 1H), 6.95 (d, $J = 1.6$ Hz, 1H), 6.71 (d, $J = 8.9$ Hz, 2H), 6.60 (d, $J = 15.9$ Hz, 1H), 3.07 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 166.8, 163.0, 152.2, 144.4, 139.2, 134.2, 131.8, 130.3, 128.3, 125.7, 122.8, 122.1, 120.7, 118.3, 112.5, 112.2, 111.7, 107.1, 40.3 **HRMS** (ESI) m/z $[\text{M} + \text{H}]^+$ calcd for $\text{C}_{22}\text{H}_{20}\text{N}_3\text{O}_2$ 358.155, found 358.1553.



(Z)-2-((E)-4-(dimethylamino)styryl)-4-(quinolin-2-yl)methylene)oxazol-5(4H)-one (SOD12).

Compound **SOD12** was prepared in a similar manner as described for compound **SOD11** as a black solid. $^1\text{H NMR}$ (400 MHz, Chloroform-*d*) δ 8.86 (d, $J = 8.6$ Hz, 1H), 8.23 (d, $J = 8.7$ Hz, 1H), 8.14 – 8.10 (m, 1H), 7.82 (s, 1H), 7.77 – 7.70 (m, 2H), 7.58 (s, 1H), 7.52 (d, $J = 8.8$ Hz, 2H), 7.43 (s, 1H), 6.71 (d, $J = 8.9$ Hz, 2H), 6.61 (d, $J = 15.8$ Hz, 1H), 3.08 (s, 6H). $^{13}\text{C NMR}$ (126 MHz, Chloroform-*d*) δ 167.4, 165.9, 153.9, 152.5, 148.7, 146.2, 137.9, 136.3, 130.7, 130.0, 130.0, 128.2, 127.8, 127.6, 123.8, 122.5, 112.1, 106.8, 40.2. **HRMS** (EI) m/z $[\text{M}]^+$ calcd for $\text{C}_{23}\text{H}_{19}\text{O}_2\text{N}_3$ 369.1472, found 369.1472.

Synthesis procedure and the chemical characterization of SOD9-TPP (Fig. S8):

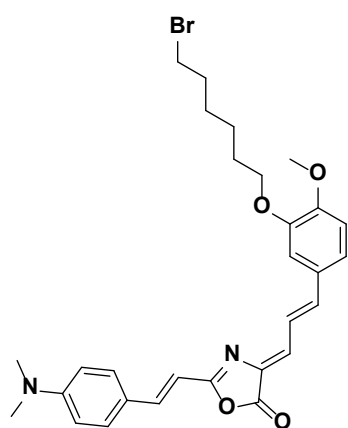
To a solution of Isovanillin (5.00 g, 32.86 mmol) and K_2CO_3 (9.08 g, 65.73 mmol) in 100 mL acetonitrile was added 1,6-dibromohexane (10.08 mL, 65.73 mmol). The mixture was refluxed at 80°C for 3 h. After this period, the mixture was concentrated under vacuum and dissolved in CH_2Cl_2 . The organic layer was washed with water, brine, dried over anhydrous Na_2SO_4 , and concentrated under vacuum. The residue was purified by silica gel column using 33% ethyl acetate in petroleum ether as eluent to afford compound **B**.

To a solution of ethyl (triphenylphosphoranylidene)acetate (7.18 g, 20.62 mmol) and trimethylamine (3.31 mL, 23.79 mmol) in 100 mL acetonitrile was added compound **B** (5.00 g, 15.86 mmol) portion-wise. The reaction was stirred at room temperature overnight. After the reaction was completed, the mixture was concentrated under vacuum and purified by silica gel column using 15% ethyl acetate in petroleum ether as eluent to afford compound **C** as a white solid.

To a solution of LiAlH_4 (591.03 mg, 15.57 mmol) in 20 mL THF was added dropwise the solution of **C** (5.00 g, 12.98 mmol) in 30 mL THF at -20°C . The resulting mixture was stirred at 0°C for 1 hour. After the reaction was completed (monitored by TLC), the reaction was quenched by water and filtered through a Celite pad. The residue was concentrated under

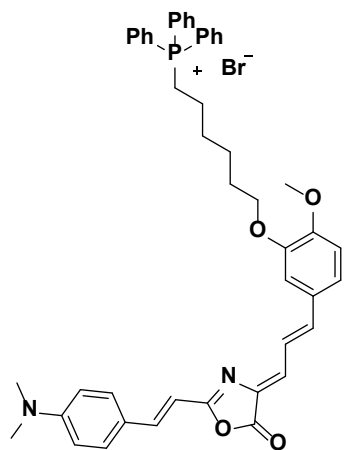
vacuum and purified by silica gel column using 20% ethyl acetate in petroleum ether as eluent to afford compound **D**.

To a solution of **D** (3.17 g, 9.24 mmol) in 30 mL CH₂Cl₂ was added MnO₂ (8.03 g, 92.41 mmol). The reaction was stirred at room temperature overnight. The mixture was filtered through a Celite pad and concentrated under a vacuum. The residue was purified by silica gel column using 20% ethyl acetate in petroleum ether as eluent to afford compound **E**.



(Z)-4-((E)-3-(3-((6-bromohexyl)oxy)-4-methoxyphenyl)allylidene)-2-((E)-4-(dimethylamino)styryl)oxazol-5(4H)-one (F).

Compound **F** (**SOD9-Br**) was prepared in a similar manner as described for compound **SOD1**. ¹H NMR (500 MHz, Chloroform-*d*) δ 7.59 (d, *J* = 15.9 Hz, 1H), 7.48-7.38 (m, 3H), 7.14 (d, *J* = 2.1 Hz, 1H), 7.10 (dd, *J* = 8.3, 1.9 Hz, 1H), 7.00 (d, *J* = 8.3 Hz, 1H), 6.97 (d, *J* = 4.4 Hz, 1H), 6.86 (d, *J* = 8.3 Hz, 1H), 6.70 (d, *J* = 8.4 Hz, 2H), 6.53 (d, *J* = 15.9 Hz, 1H), 4.07 (t, *J* = 6.7 Hz, 2H), 3.90 (s, 3H), 3.45 (t, *J* = 6.8 Hz, 2H), 3.05 (s, 6H), 1.96 – 1.87 (m, 4H), 1.58-1.50 (m, 4H). ¹³C NMR (126 MHz, Chloroform-*d*) δ 167.1, 162.8, 152.1, 151.4, 149.0, 144.0, 143.3, 133.6, 130.9, 130.2, 129.4, 122.9, 122.8, 121.5, 112.1, 111.6, 110.9, 107.2, 69.1, 56.2, 40.3, 33.9, 32.9, 29.2, 28.1, 25.4. HRMS (ESI) *m/z* [M + H]⁺ calcd for C₂₉H₃₄BrN₂O₄ 553.1696, found 553.1698.

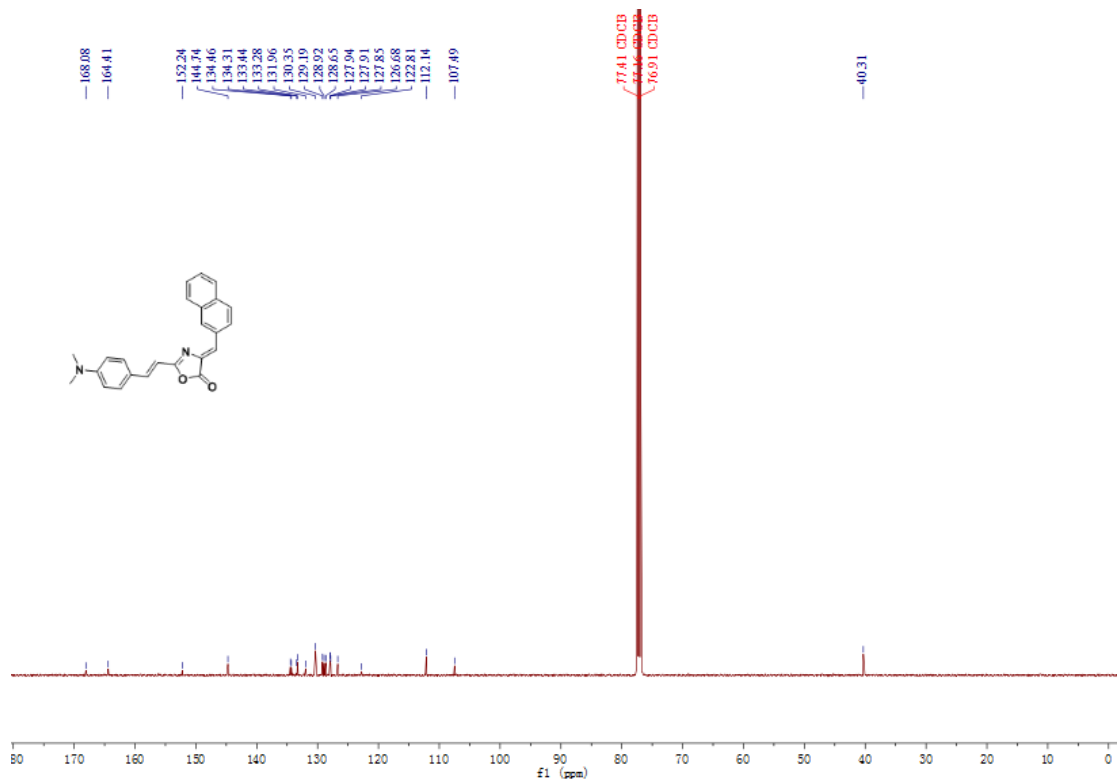
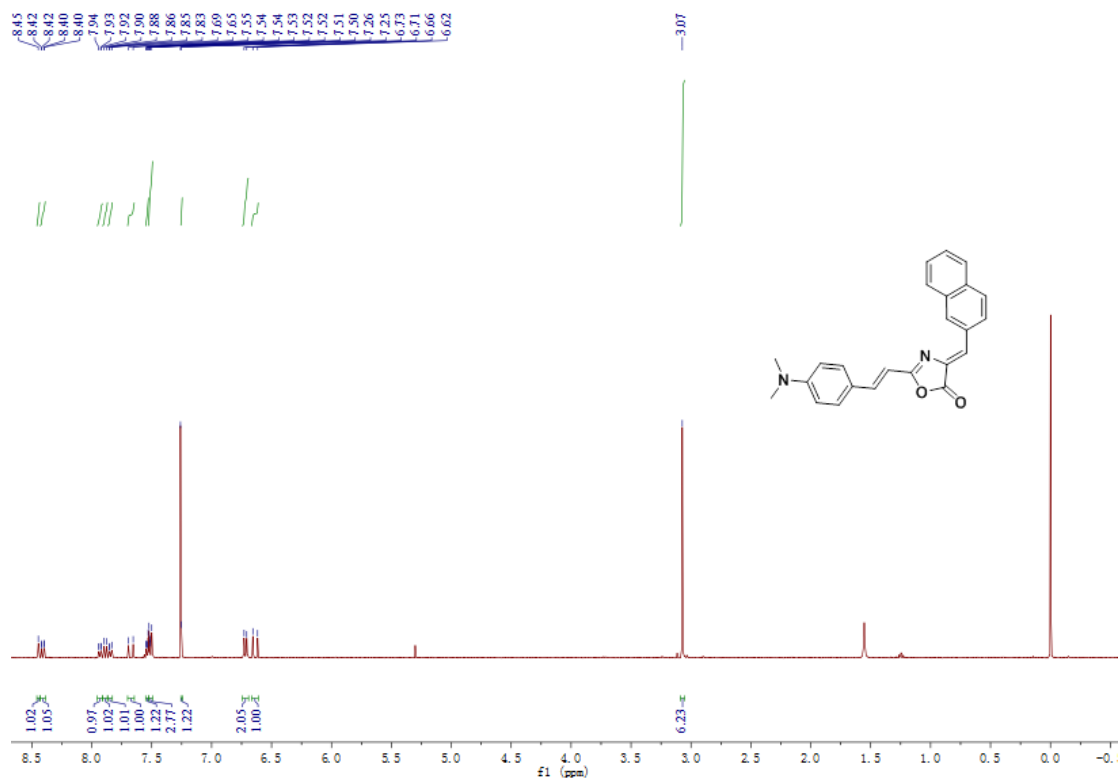


(6-(5-((1E,3Z)-3-(2-((E)-4-(dimethylamino)styryl)-5-oxooxazol-4(5H)-ylidene)prop-1-en-1-yl)-2-methoxyphenoxy)hexyl)triphenylphosphonium bromide(SOD9-TPP).

(**Z**)-4-((**E**)-3-(3-((6-bromohexyl)oxy)-4-methoxyphenyl)allylidene)-2-((**E**)-4-(dimethylamino)styryl)oxazol-5(4H)-one was prepared in a similar manner as described for compound **SOD1** as a black solid. Then the black solid was dissolved in toluene and stirred with triphenylphosphine for 12h. After the reaction completed, the solvent was removed and the residue was purified by thin layer chromatography using dichloromethane/methanol (20:1) as an eluent to afford the title compound as a black solid. ¹H NMR (400 MHz, Methanol-*d*₄) δ 7.90 – 7.71 (m, 15H), 7.60 (d, *J* = 15.9 Hz, 1H), 7.53 – 7.42 (m, 3H), 7.24 – 7.06 (m, 3H), 7.04 – 6.91 (m, 2H), 6.77 – 6.71 (m, 2H), 6.49 (d, *J* = 15.9 Hz, 1H), 4.05 (t, *J* = 6.2 Hz, 2H), 3.82 (s, 3H), 3.49 – 3.35 (m, 2H), 3.05 (s, 6H), 1.85 – 1.51 (m, 8H). HRMS (ESI) *m/z* [M]⁺ calcd for C₄₇H₄₈N₂O₄P 735.3346, found 735.3333.

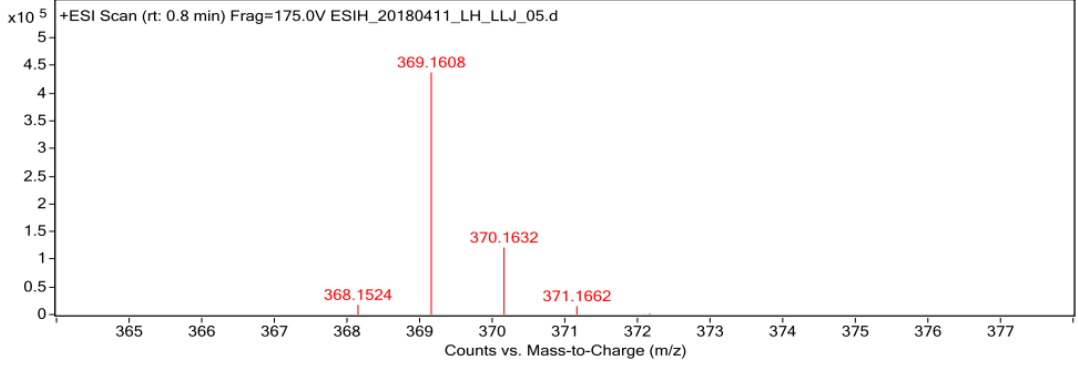
NMR and MS spectrum data

(Z)-2-((E)-4-(dimethylamino)styryl)-4-(naphthalen-2-ylmethylene)oxazol-5(4H)-one (SOD1)



User Spectra

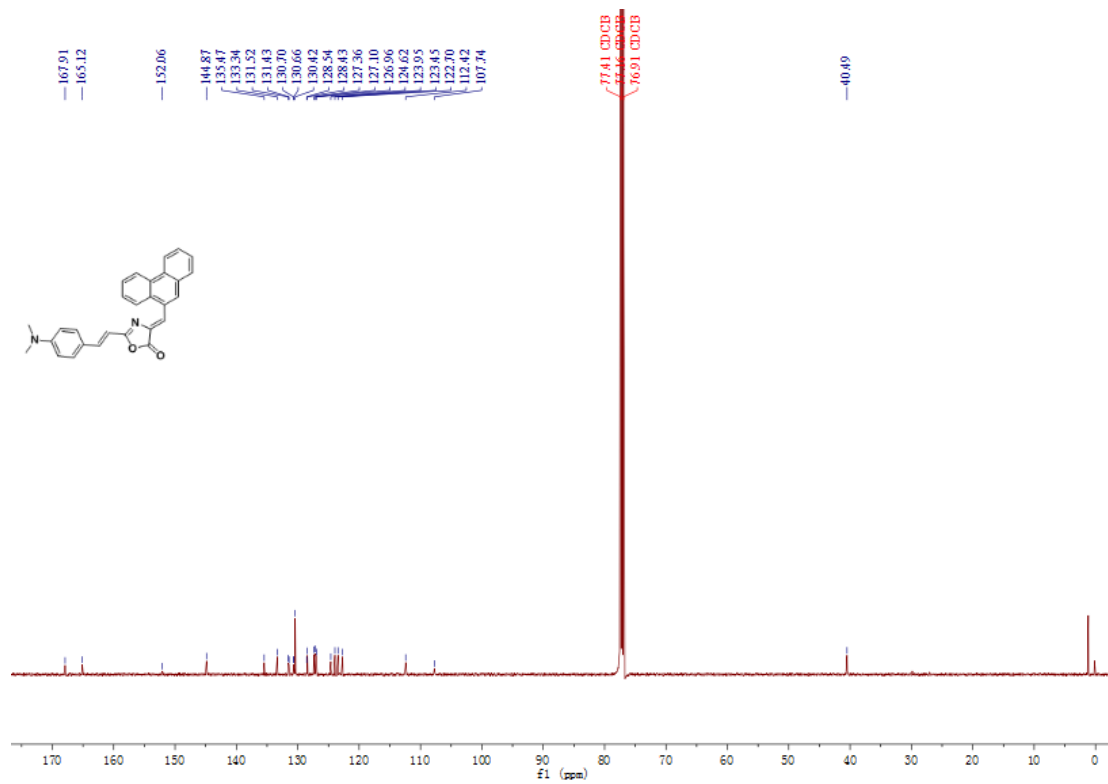
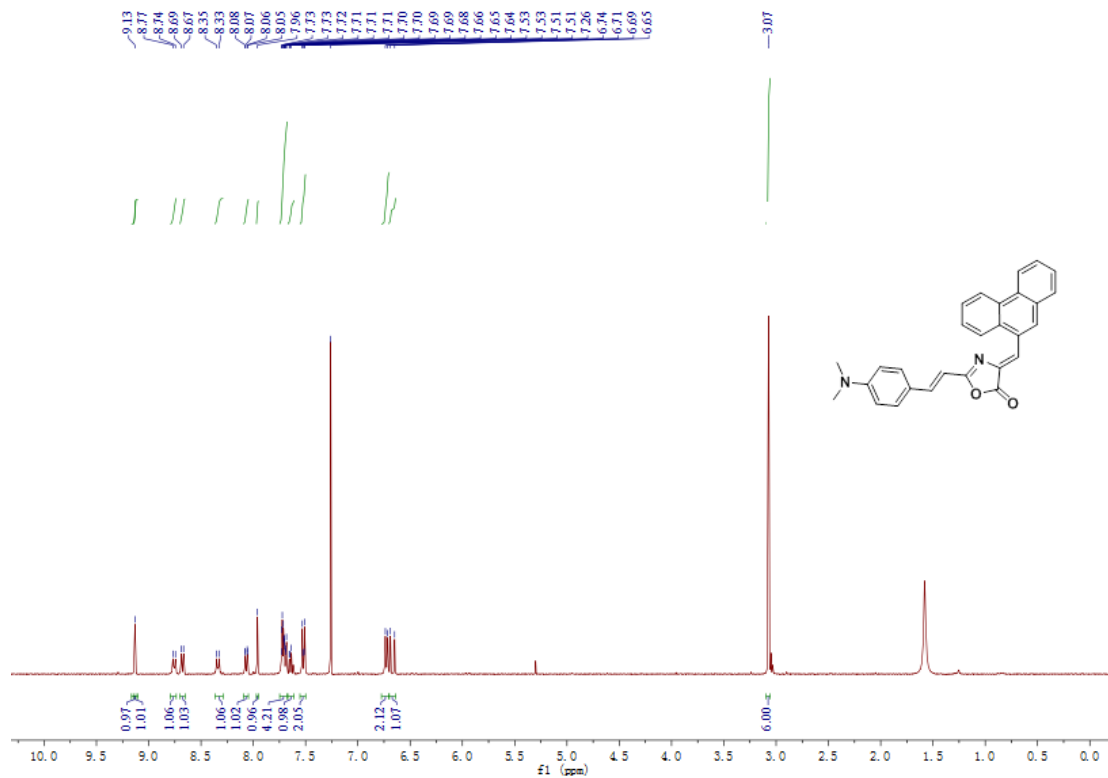
Fragmentor Voltage 175 Collision Energy 0 Ionization Mode ESI



Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
369.1608	369.1598	-1.06	-2.86	C24 H21 N2 O2	(M+H) ⁺

(Z)-2-((E)-4-(dimethylamino)styryl)-4-(phenanthren-9-ylmethylene)oxazol-5(4H)-one (SOD2)

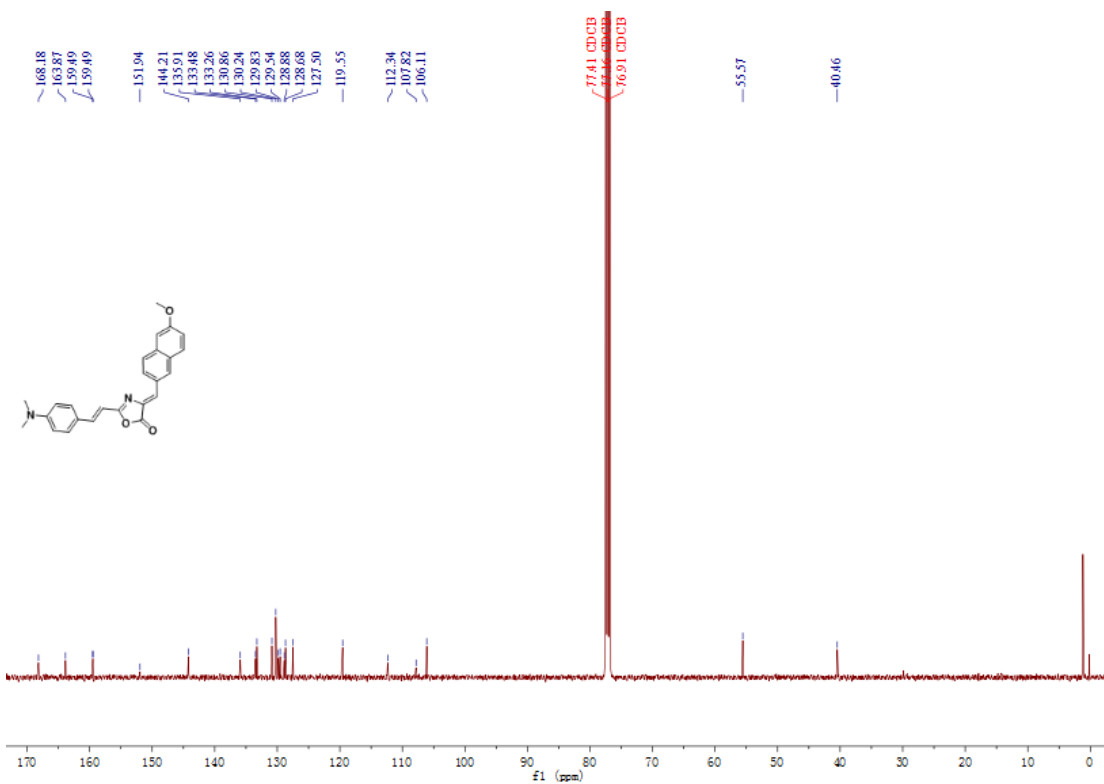
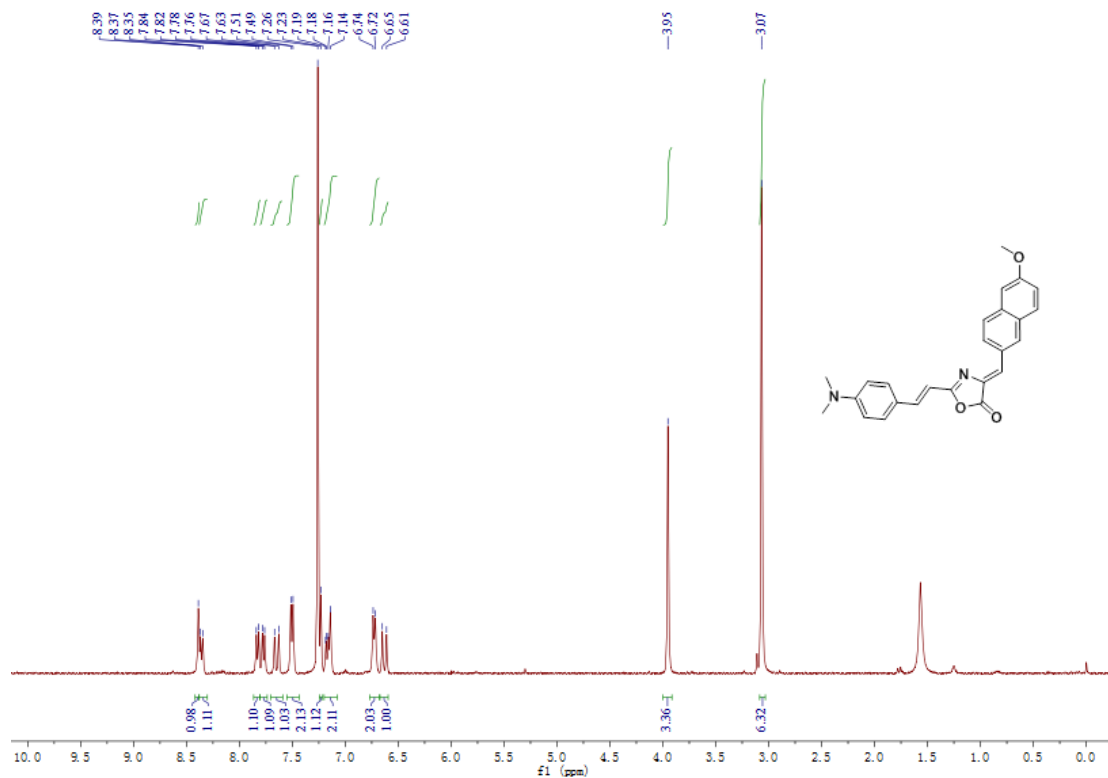


T: + c EI Full ms [49.50-800.50]

m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
51.0227	657629.0	1.53	51.0229	-0.18	3.5	C ₄ H ₃
77.0159	1562204.0	3.63	77.0134	2.48	5.5	C ₄ H ₁ N ₂
91.0504	461415.0	1.07	91.0502	0.20	0.5	C ₂ H ₇ O ₂ N ₂
101.0388	579640.0	1.35	101.0386	0.19	6.5	C ₈ H ₅
102.0464	1025248.0	2.38	102.0464	0.01	6.0	C ₈ H ₆
103.0543	1851834.0	4.31	103.0542	0.06	5.5	C ₈ H ₇
115.0543	520544.0	1.21	115.0542	0.04	6.5	C ₉ H ₇
116.0492	703367.0	1.64	116.0495	-0.25	6.5	C ₈ H ₆ N ₁
118.0654	334889.0	0.78	118.0651	0.30	5.5	C ₈ H ₈ N ₁
119.0726	356709.0	0.83	119.0730	-0.37	5.0	C ₈ H ₉ N ₁
128.0490	479450.0	1.11	128.0495	-0.43	7.5	C ₉ H ₆ N ₁
129.0561	367714.0	0.86	129.0573	-1.24	7.0	C ₉ H ₇ N ₁
130.0650	2545723.0	5.92	130.0651	-0.14	6.5	C ₉ H ₈ N ₁
131.0727	2850142.0	6.63	131.0730	-0.26	6.0	C ₉ H ₉ N ₁
132.0781	449902.0	1.05	132.0781	-0.04	1.0	C ₆ H ₁₂ O ₃
134.0968	1238033.0	2.88	134.0964	0.40	4.5	C ₉ H ₁₂ N ₁
144.0811	2222347.0	5.17	144.0808	0.36	6.5	C ₁₀ H ₁₀ N ₁
145.0884	1426804.0	3.32	145.0886	-0.21	6.0	C ₁₀ H ₁₁ N ₁
146.0962	9949440.0	23.14	146.0964	-0.27	5.5	C ₁₀ H ₁₂ N ₁
147.1001	1230304.0	2.86	147.1016	-1.50	0.5	C ₇ H ₁₅ O ₃
158.0593	393541.0	0.92	158.0600	-0.72	7.5	C ₁₀ H ₈ O ₁ N ₁
158.0962	464755.0	1.08	158.0964	-0.23	6.5	C ₁₁ H ₁₂ N ₁
160.0744	839181.0	1.95	160.0757	-1.33	6.5	C ₁₀ H ₁₀ O ₁ N ₁
165.0692	362752.0	0.84	165.0699	-0.68	9.5	C ₁₃ H ₉
171.0919	807470.0	1.88	171.0917	0.19	7.5	C ₁₁ H ₁₁ N ₂
172.0994	550633.0	1.28	172.0995	-0.06	7.0	C ₁₁ H ₁₂ N ₂
174.0919	43004672.0	100.00	174.0913	0.56	6.5	C ₁₁ H ₁₂ O ₁ N ₁
176.0617	342014.0	0.80	176.0621	-0.35	11.0	C ₁₄ H ₈
187.0532	375474.0	0.87	187.0542	-1.03	12.5	C ₁₅ H ₇
188.0938	1152124.0	2.68	188.0944	-0.64	7.0	C ₁₁ H ₁₂ O ₁ N ₂
189.0701	986158.0	2.29	189.0699	0.20	11.5	C ₁₅ H ₉
190.0669	698246.0	1.62	190.0651	1.79	11.5	C ₁₄ H ₈ N ₁
191.0861	353464.0	0.82	191.0855	0.61	10.5	C ₁₅ H ₁₁
200.0620	353369.0	0.82	200.0621	-0.09	13.0	C ₁₆ H ₈
202.0770	671688.0	1.56	202.0777	-0.69	12.0	C ₁₆ H ₁₀
214.0642	519844.0	1.21	214.0651	-0.91	13.5	C ₁₆ H ₈ N ₁
215.0711	324584.0	0.75	215.0703	0.80	8.5	C ₁₃ H ₁₁ O ₃
216.0797	1206354.0	2.81	216.0808	-1.08	12.5	C ₁₆ H ₁₀ N ₁
217.0873	913067.0	2.12	217.0886	-1.30	12.0	C ₁₆ H ₁₁ N ₁
229.0973	447325.0	1.04	229.0972	0.19	8.5	C ₁₃ H ₁₃ O ₂ N ₂
373.1645	425601.0	0.99	373.1672	-2.78	14.0	C ₂₄ H ₂₃ O ₃ N ₁
376.1910	490518.0	1.14	376.1907	0.28	12.5	C ₂₄ H ₂₆ O ₃ N ₁
417.1594	753462.0	1.75	417.1598	-0.33	19.5	C ₂₈ H ₂₁ O ₂ N ₂
418.1668	11111680.0	25.84	418.1676	-0.74	19.0	C ₂₈ H ₂₂ O ₂ N ₂

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((6-methoxynaphthalen-2-yl)methylene)oxazol-5(4H)-one (SOD3)

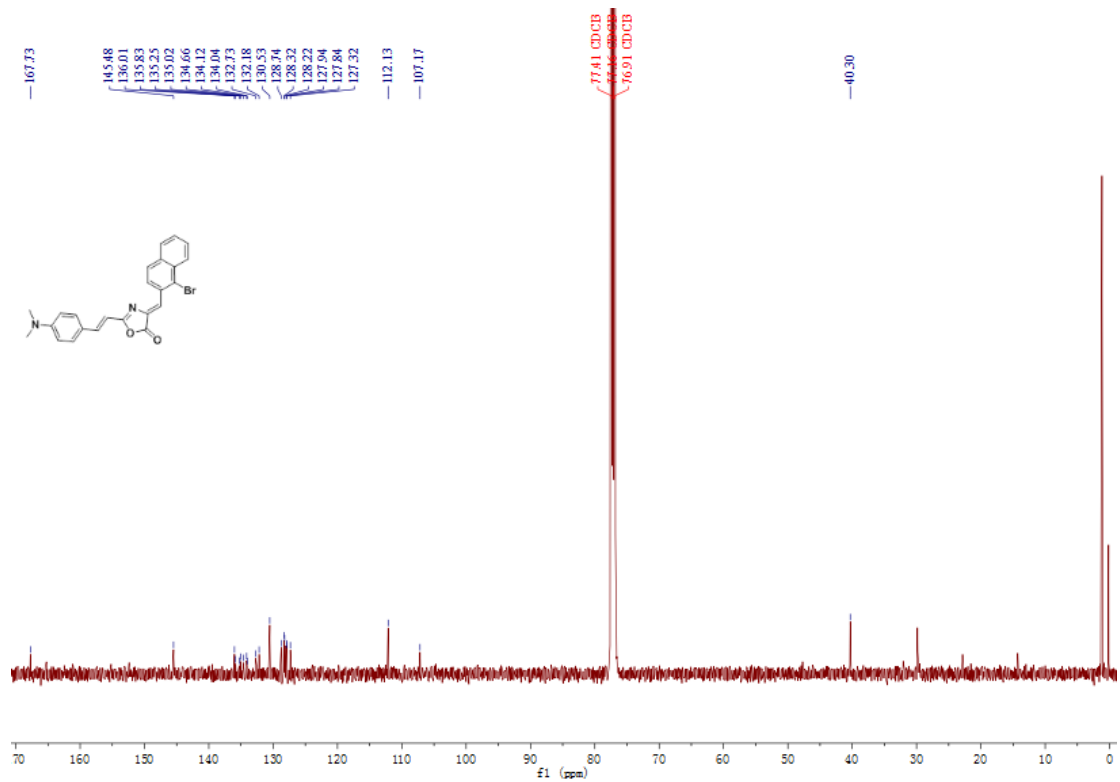
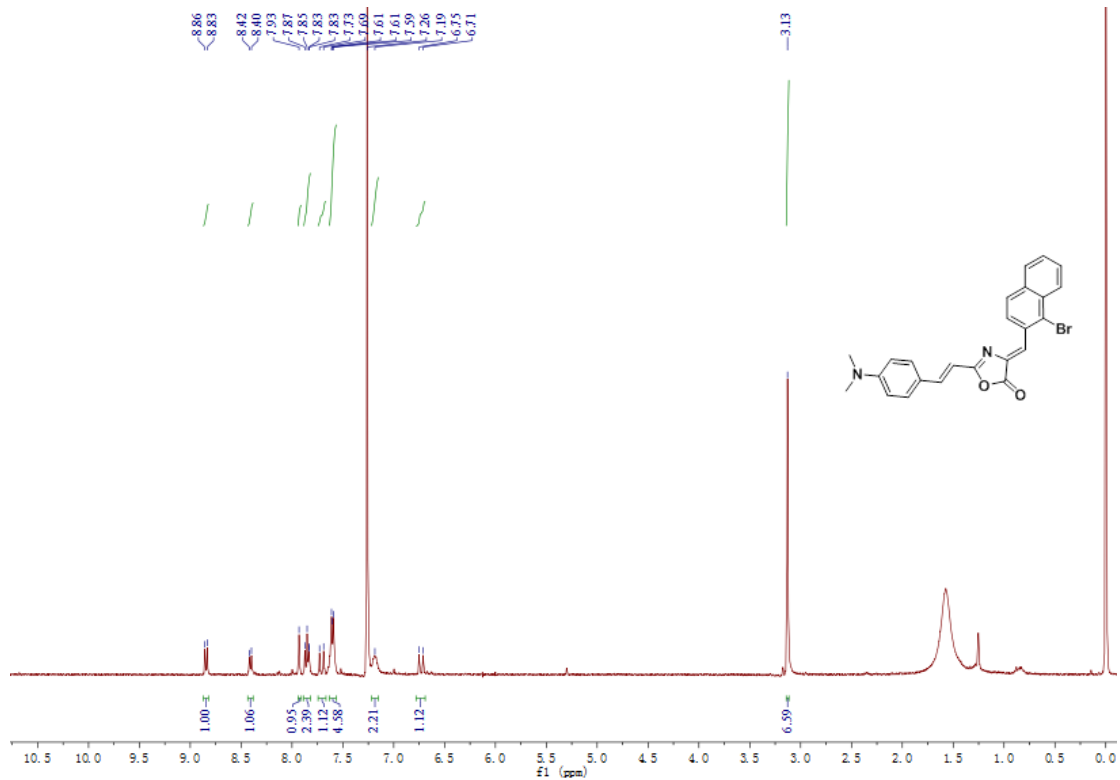


T: + c EI Full ms [49.50-800.50]

m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
51.0087	532121.0	2.41	51.0077	1.07	-0.5	H ₃ O ₃
55.0515	399775.0	1.81	55.0542	-2.75	1.5	C ₄ H ₇
56.0600	211258.0	0.96	56.0621	-2.01	1.0	C ₄ H ₈
57.0684	473693.0	2.15	57.0699	-1.45	0.5	C ₄ H ₉
60.0202	326970.0	1.48	60.0206	-0.40	1.0	C ₂ H ₄ O ₂
63.0229	430054.0	1.95	63.0229	0.00	4.5	C ₅ H ₃
65.0385	192683.0	0.87	65.0386	-0.05	3.5	C ₅ H ₅
69.0702	278051.0	1.26	69.0699	0.28	1.5	C ₅ H ₉
71.0845	175635.0	0.80	71.0855	-1.02	0.5	C ₅ H ₁₁
73.0278	259572.0	1.18	73.0284	-0.59	1.5	C ₃ H ₅ O ₂
74.0141	256582.0	1.16	74.0151	-1.00	6.0	C ₆ H ₂
75.0218	324934.0	1.47	75.0229	-1.14	5.5	C ₆ H ₃
76.0300	322708.0	1.46	76.0308	-0.75	5.0	C ₆ H ₄
77.0377	1079351.0	4.90	77.0386	-0.86	4.5	C ₆ H ₅
79.0538	199330.0	0.90	79.0542	-0.44	3.5	C ₆ H ₇
87.0445	182727.0	0.83	87.0441	0.40	1.5	C ₄ H ₇ O ₂
89.0386	403210.0	1.83	89.0386	0.05	5.5	C ₇ H ₅
91.0542	303624.0	1.38	91.0542	-0.07	4.5	C ₇ H ₇
101.0390	299998.0	1.36	101.0386	0.44	6.5	C ₈ H ₅
102.0467	662432.0	3.00	102.0464	0.35	6.0	C ₈ H ₆
103.0547	1136952.0	5.16	103.0542	0.42	5.5	C ₈ H ₇
115.0547	426015.0	1.93	115.0542	0.49	6.5	C ₉ H ₇
116.0503	387275.0	1.76	116.0495	0.84	6.5	C ₈ H ₆ N ₁
126.0461	346658.0	1.57	126.0464	-0.34	8.0	C ₁₀ H ₆
127.0538	223790.0	1.02	127.0542	-0.47	7.5	C ₁₀ H ₇
128.0500	264597.0	1.20	128.0495	0.53	7.5	C ₉ H ₆ N ₁
129.0565	233999.0	1.06	129.0573	-0.85	7.0	C ₉ H ₇ N ₁
130.0652	1502567.0	6.82	130.0651	0.03	6.5	C ₉ H ₈ N ₁
131.0728	1571301.0	7.13	131.0730	-0.16	6.0	C ₉ H ₉ N ₁
132.0792	265870.0	1.21	132.0781	1.07	1.0	C ₆ H ₁₂ O ₃
134.0967	305914.0	1.39	134.0964	0.23	4.5	C ₉ H ₁₂ N ₁
139.0542	216983.0	0.98	139.0542	-0.02	8.5	C ₁₁ H ₇
144.0811	1235139.0	5.60	144.0808	0.28	6.5	C ₁₀ H ₁₀ N ₁
145.0880	733042.0	3.33	145.0886	-0.62	6.0	C ₁₀ H ₁₁ N ₁
146.0962	5376846.0	24.39	146.0964	-0.22	5.5	C ₁₀ H ₁₂ N ₁
147.0996	628113.0	2.85	147.1016	-1.97	0.5	C ₇ H ₁₅ O ₃
149.0233	1054446.0	4.78	149.0233	0.02	6.5	C ₈ H ₅ O ₃
153.0573	798818.0	3.62	153.0573	-0.05	9.0	C ₁₁ H ₇ N ₁
154.0636	223058.0	1.01	154.0624	1.18	4.0	C ₈ H ₁₀ O ₃
158.0593	196150.0	0.89	158.0600	-0.76	7.5	C ₁₀ H ₈ O ₁ N ₁
158.0956	402001.0	1.82	158.0964	-0.88	6.5	C ₁₁ H ₁₂ N ₁
160.0746	585206.0	2.65	160.0757	-1.14	6.5	C ₁₀ H ₁₀ O ₁ N ₁
171.0914	370544.0	1.68	171.0917	-0.31	7.5	C ₁₁ H ₁₁ N ₂
172.0988	236830.0	1.07	172.0995	-0.67	7.0	C ₁₁ H ₁₂ N ₂
174.0913	22044672.0	100.00	174.0913	-0.08	6.5	C ₁₁ H ₁₂ O ₁ N ₁
196.0757	472420.0	2.14	196.0757	-0.03	9.5	C ₁₃ H ₁₀ O ₁ N ₁
197.0818	212657.0	0.96	197.0835	-1.76	9.0	C ₁₃ H ₁₁ O ₁ N ₁
398.1629	5496406.0	24.93	398.1625	0.41	16.0	C ₂₅ H ₂₂ O ₃ N ₂

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((1-bromonaphthalen-2-yl)methylene)-oxazol-5(4H)-one (SOD4)

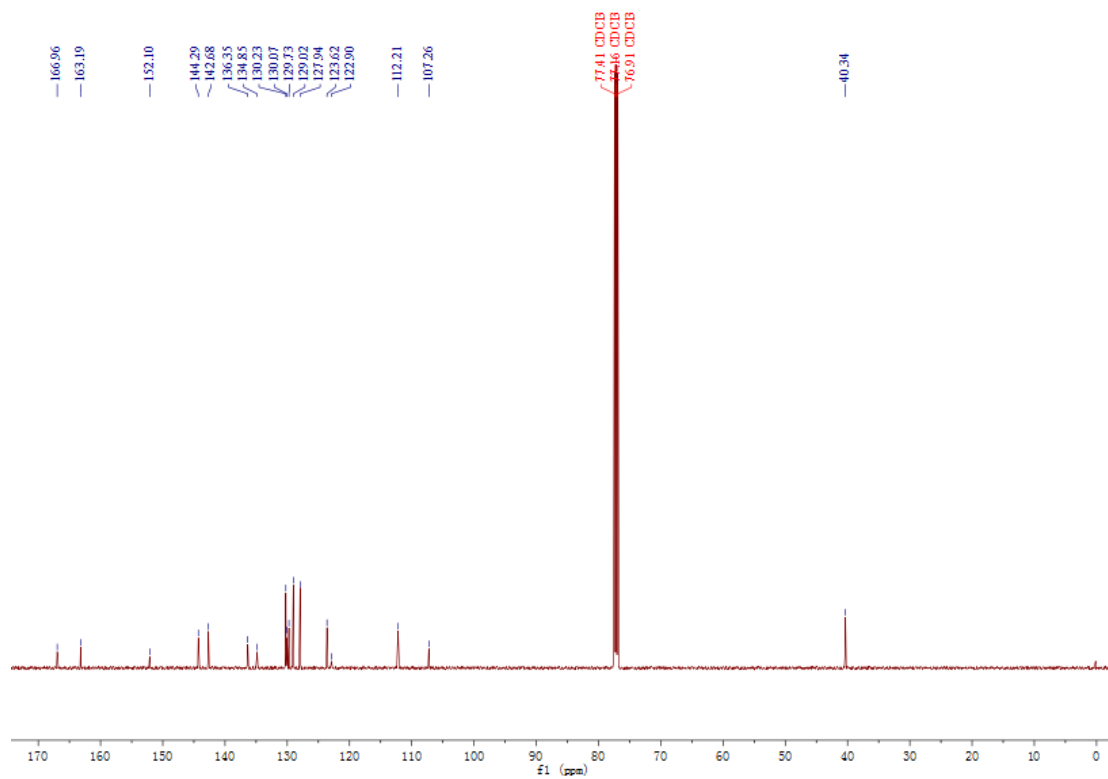
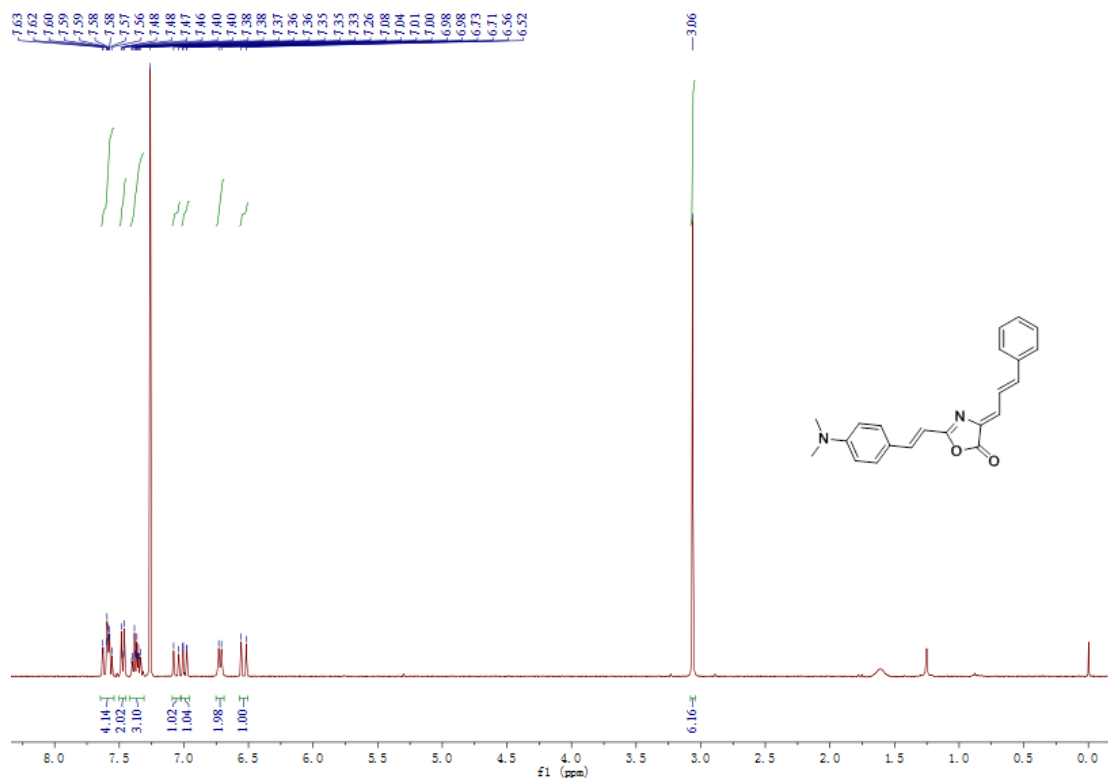


T: + c EI Full ms [49.50-800.50]

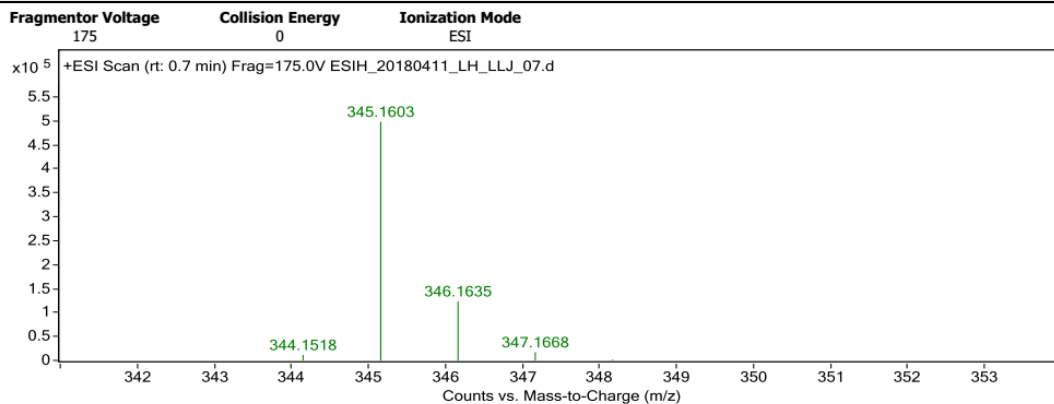
m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
51.0090	718475.0	0.92	51.0104	-1.32	4.0	C ₃ H ₁ N ₁
60.0656	489501.0	0.62	60.0682	-2.64	0.0	C ₂ H ₈ N ₂
63.0581	717203.0	0.91	63.0553	2.83	-0.5	C ₁ H ₇ O ₁ N ₂
101.0388	648724.0	0.83	101.0386	0.20	6.5	C ₈ H ₅
102.0467	1479317.0	1.89	102.0464	0.32	6.0	C ₈ H ₆
103.0550	2575239.0	3.29	103.0542	0.77	5.5	C ₈ H ₇
105.0588	531740.0	0.68	105.0573	1.49	5.0	C ₇ H ₇ N ₁
115.0551	929066.0	1.19	115.0542	0.86	6.5	C ₉ H ₇
116.0503	954415.0	1.22	116.0495	0.82	6.5	C ₈ H ₆ N ₁
119.0728	663100.0	0.85	119.0730	-0.15	5.0	C ₈ H ₉ N ₁
128.0491	644016.0	0.82	128.0495	-0.35	7.5	C ₉ H ₆ N ₁
129.0567	654830.0	0.84	129.0573	-0.62	7.0	C ₉ H ₇ N ₁
130.0654	3680354.0	4.70	130.0651	0.27	6.5	C ₉ H ₈ N ₁
131.0726	4372621.0	5.58	131.0730	-0.37	6.0	C ₉ H ₉ N ₁
134.0968	782279.0	1.00	134.0964	0.41	4.5	C ₉ H ₁₂ N ₁
138.0461	918029.0	1.17	138.0464	-0.26	9.0	C ₁₁ H ₆
139.0539	1053015.0	1.34	139.0542	-0.35	8.5	C ₁₁ H ₇
144.0816	4056402.0	5.17	144.0808	0.83	6.5	C ₁₀ H ₁₀ N ₁
145.0883	2679628.0	3.42	145.0886	-0.30	6.0	C ₁₀ H ₁₁ N ₁
146.0965	17638144.0	22.50	146.0964	0.08	5.5	C ₁₀ H ₁₂ N ₁
149.0237	2287010.0	2.92	149.0260	-2.31	11.0	C ₁₁ H ₃ N ₁
158.0964	2048207.0	2.61	158.0964	-0.04	6.5	C ₁₁ H ₁₂ N ₁
160.0748	813417.0	1.04	160.0757	-0.92	6.5	C ₁₀ H ₁₀ O ₁ N ₁
164.0493	1951420.0	2.49	164.0495	-0.17	10.5	C ₁₂ H ₆ N ₁
165.0569	1650181.0	2.11	165.0573	-0.40	10.0	C ₁₂ H ₇ N ₁
166.0643	893824.0	1.14	166.0651	-0.81	9.5	C ₁₂ H ₈ N ₁
171.0917	1181481.0	1.51	171.0917	0.02	7.5	C ₁₁ H ₁₁ N ₂
172.0986	695765.0	0.89	172.0995	-0.87	7.0	C ₁₁ H ₁₂ N ₂
174.0912	78385152.0	100.00	174.0913	-0.11	6.5	C ₁₁ H ₁₂ O ₁ N ₁
176.0973	577255.0	0.74	176.0944	2.84	6.0	C ₁₀ H ₁₂ O ₁ N ₂
183.0676	1419934.0	1.81	183.0679	-0.26	9.0	C ₁₂ H ₉ O ₁ N ₁
184.0731	1730747.0	2.21	184.0757	-2.64	8.5	C ₁₂ H ₁₀ O ₁ N ₁
229.0971	856610.0	1.09	229.0972	-0.09	8.5	C ₁₃ H ₁₃ O ₂ N ₂
339.1485	1558419.0	1.99	339.1492	-0.68	15.5	C ₂₃ H ₁₉ O ₁ N ₂
367.1429	36165120.0	46.14	367.1441	-1.18	16.5	C ₂₄ H ₁₉ O ₂ N ₂
368.1459	10220800.0	13.04	368.1458	0.08	5.0	C ₁₈ H ₂₉ O ₁ N ₂ ⁷⁹ Br ₁
446.0631	9491456.0	12.11	446.0624	0.67	16.0	C ₂₄ H ₁₉ O ₂ N ₂ ⁷⁹ Br ₁

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-phenylallylidene)oxazol-5(4H)-one (SOD5)



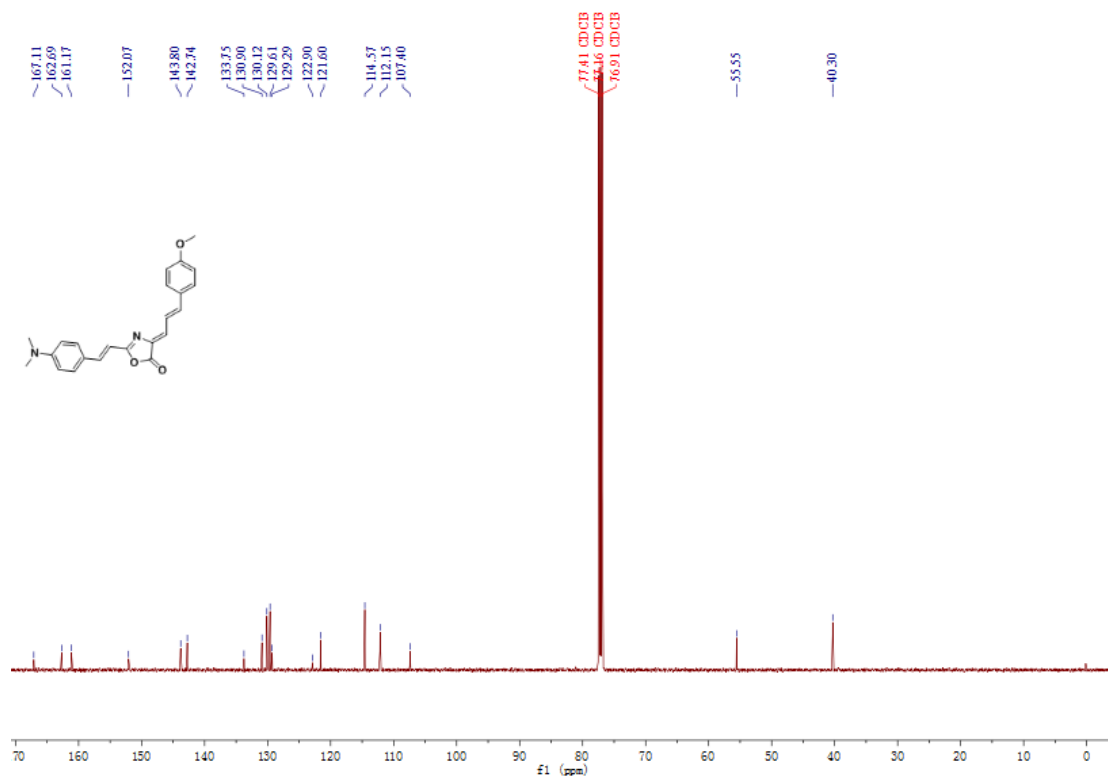
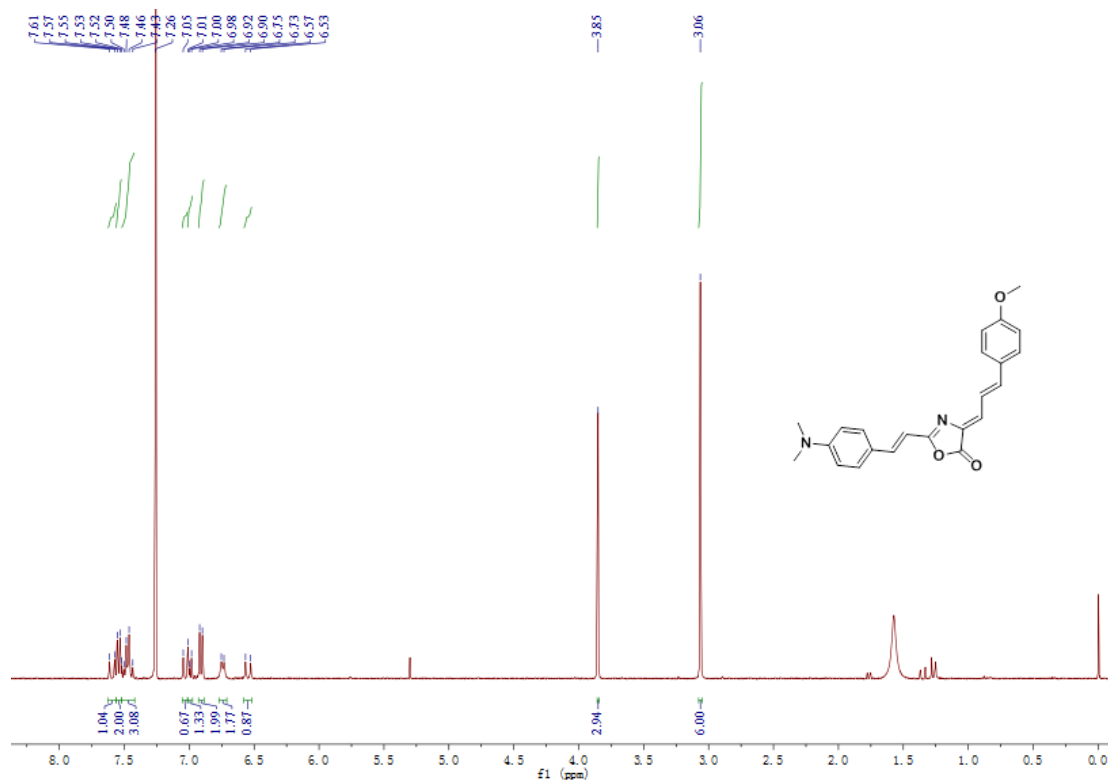
User Spectra



Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
345.1603	345.1598	-0.53	-1.55	C22 H21 N2 O2	(M+H) ⁺

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-methoxyphenyl)allylidene)oxazol-5(4H)-one (SOD6)

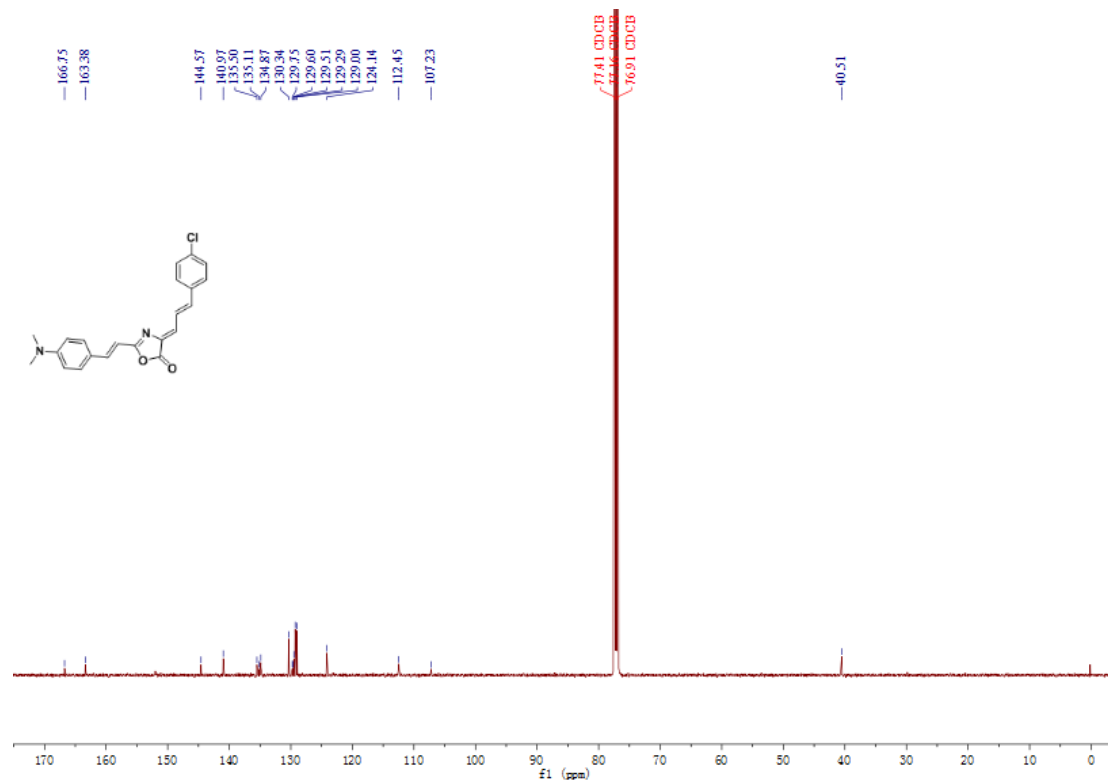
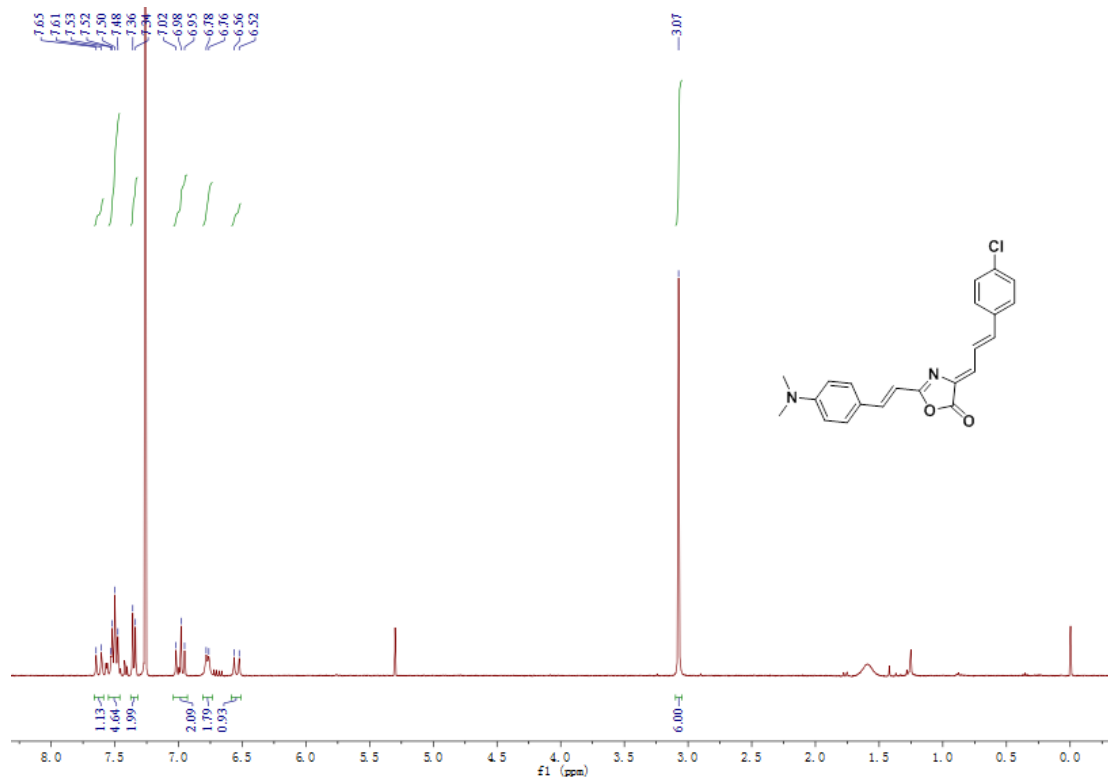


T: + c EI Full ms [49.50-800.50]

m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
51.0239	868633.0	2.32	51.0229	0.98	3.5	C ₄ H ₃
60.0232	275857.0	0.74	60.0206	2.59	1.0	C ₂ H ₄ O ₂
63.0238	705498.0	1.88	63.0229	0.86	4.5	C ₅ H ₃
65.0389	348534.0	0.93	65.0386	0.35	3.5	C ₅ H ₅
74.0138	355214.0	0.95	74.0151	-1.30	6.0	C ₆ H ₂
75.0219	502668.0	1.34	75.0229	-1.07	5.5	C ₆ H ₃
76.0301	577700.0	1.54	76.0308	-0.64	5.0	C ₆ H ₄
77.0380	1876484.0	5.01	77.0386	-0.57	4.5	C ₆ H ₅
78.0457	379737.0	1.01	78.0464	-0.67	4.0	C ₆ H ₆
79.0540	324075.0	0.86	79.0542	-0.26	3.5	C ₆ H ₇
89.0384	712336.0	1.90	89.0386	-0.16	5.5	C ₇ H ₅
91.0539	665263.0	1.78	91.0542	-0.37	4.5	C ₇ H ₇
101.0392	586765.0	1.57	101.0386	0.57	6.5	C ₈ H ₅
102.0469	1398878.0	3.73	102.0464	0.48	6.0	C ₈ H ₆
103.0554	2037138.0	5.44	103.0542	1.16	5.5	C ₈ H ₇
104.0508	277002.0	0.74	104.0495	1.33	5.5	C ₇ H ₆ N ₁
115.0546	1046940.0	2.79	115.0542	0.38	6.5	C ₉ H ₇
116.0498	780879.0	2.08	116.0495	0.35	6.5	C ₈ H ₆ N ₁
118.0654	290233.0	0.77	118.0651	0.31	5.5	C ₈ H ₈ N ₁
119.0725	382822.0	1.02	119.0730	-0.43	5.0	C ₈ H ₉ N ₁
128.0495	687050.0	1.83	128.0495	0.03	7.5	C ₉ H ₆ N ₁
129.0573	570066.0	1.52	129.0573	0.02	7.0	C ₉ H ₇ N ₁
130.0656	2489330.0	6.64	130.0651	0.51	6.5	C ₉ H ₈ N ₁
131.0491	268382.0	0.72	131.0491	-0.01	6.5	C ₉ H ₇ O ₁
131.0726	2533255.0	6.76	131.0730	-0.33	6.0	C ₉ H ₉ N ₁
132.0786	393222.0	1.05	132.0781	0.54	1.0	C ₆ H ₁₂ O ₃
134.0967	789149.0	2.11	134.0964	0.30	4.5	C ₉ H ₁₂ N ₁
144.0811	2161247.0	5.77	144.0808	0.29	6.5	C ₁₀ H ₁₀ N ₁
145.0883	1265069.0	3.38	145.0886	-0.32	6.0	C ₁₀ H ₁₁ N ₁
146.0967	9352960.0	24.96	146.0964	0.32	5.5	C ₁₀ H ₁₂ N ₁
147.1003	1252791.0	3.34	147.1016	-1.31	0.5	C ₇ H ₁₅ O ₃
149.0237	1382912.0	3.69	149.0233	0.36	6.5	C ₈ H ₅ O ₃
158.0595	336512.0	0.90	158.0600	-0.53	7.5	C ₁₀ H ₈ O ₁ N ₁
158.0958	361098.0	0.96	158.0964	-0.66	6.5	C ₁₁ H ₁₂ N ₁
159.0662	255214.0	0.68	159.0679	-1.63	7.0	C ₁₀ H ₉ O ₁ N ₁
160.0748	637687.0	1.70	160.0757	-0.85	6.5	C ₁₀ H ₁₀ O ₁ N ₁
171.0915	421085.0	1.12	171.0917	-0.14	7.5	C ₁₁ H ₁₁ N ₂
172.0746	468413.0	1.25	172.0757	-1.09	7.5	C ₁₁ H ₁₀ O ₁ N ₁
172.0988	903620.0	2.41	172.0995	-0.68	7.0	C ₁₁ H ₁₂ N ₂
173.0830	372326.0	0.99	173.0835	-0.49	7.0	C ₁₁ H ₁₁ O ₁ N ₁
174.0913	37478912.0	100.00	174.0913	-0.03	6.5	C ₁₁ H ₁₂ O ₁ N ₁
253.1463	1375437.0	3.67	253.1461	0.15	9.0	C ₁₇ H ₁₉ O ₁ N ₁
330.1712	296849.0	0.79	330.1727	-1.47	13.0	C ₂₂ H ₂₂ O ₁ N ₂
374.1624	8271454.0	22.07	374.1625	-0.13	14.0	C ₂₃ H ₂₂ O ₃ N ₂

(Z)-4-((E)-3-(4-chlorophenyl)allylidene)-2-((E)-4-(dimethylamino)styryl)oxazol-5(4H)-one (SOD7)

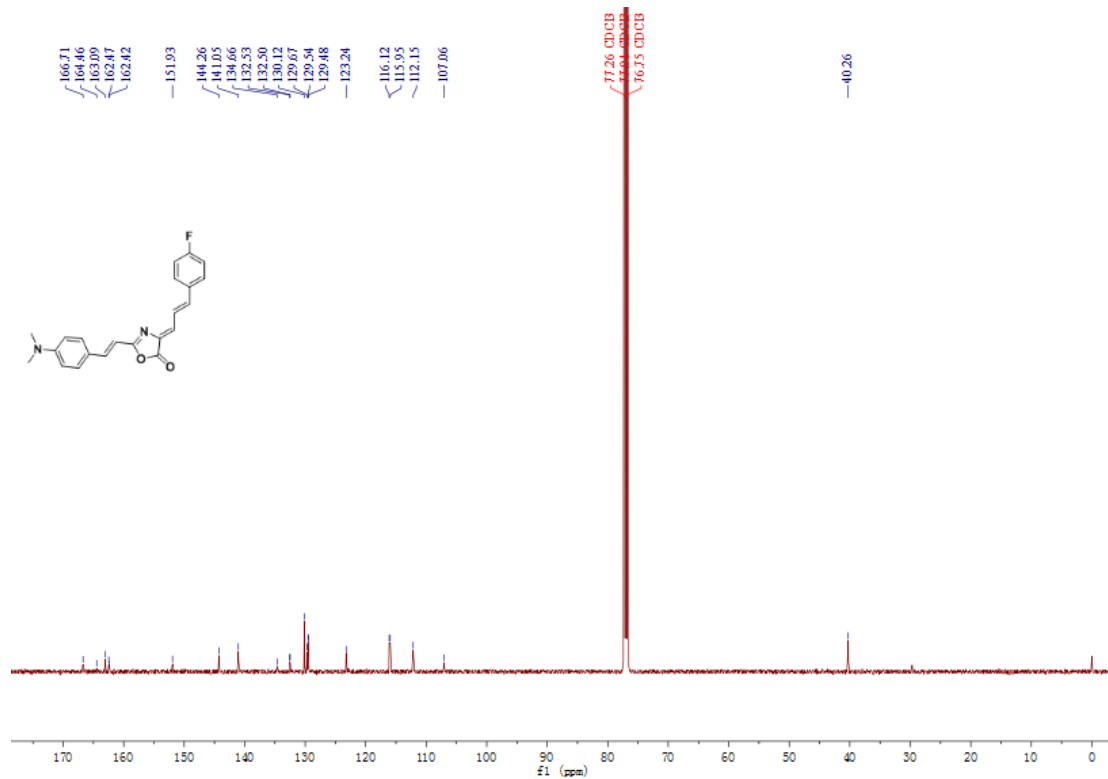
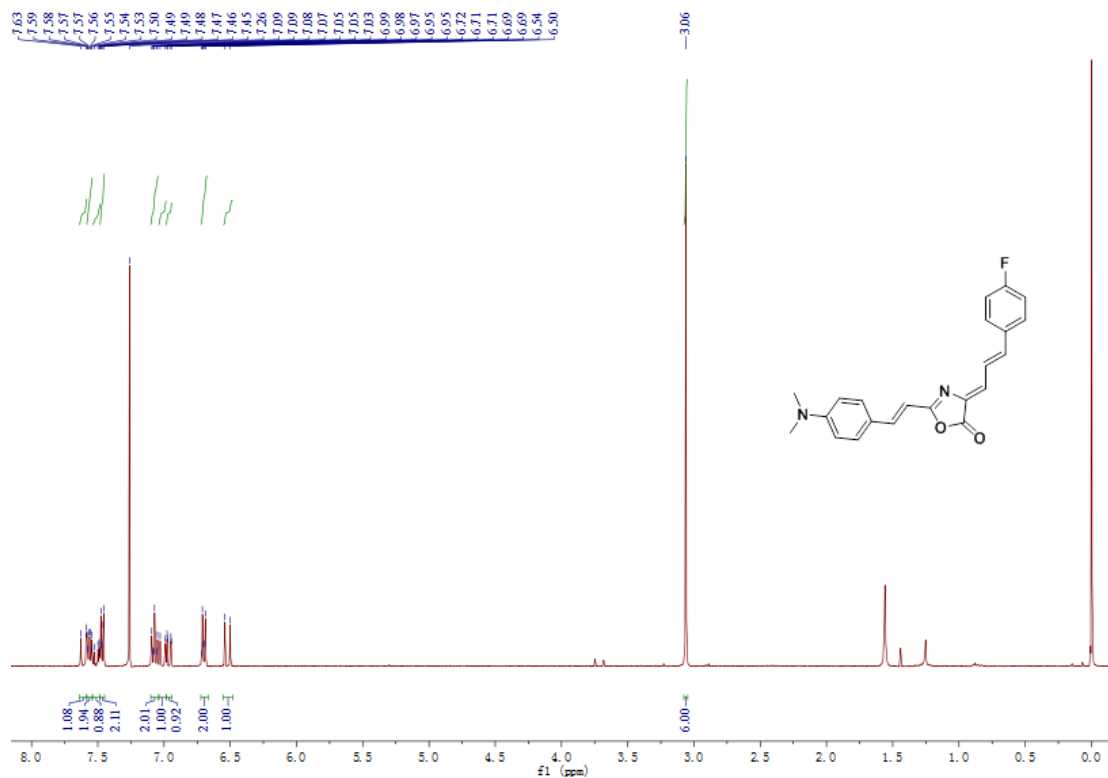


T: + c EI Full ms [49.50-800.50]

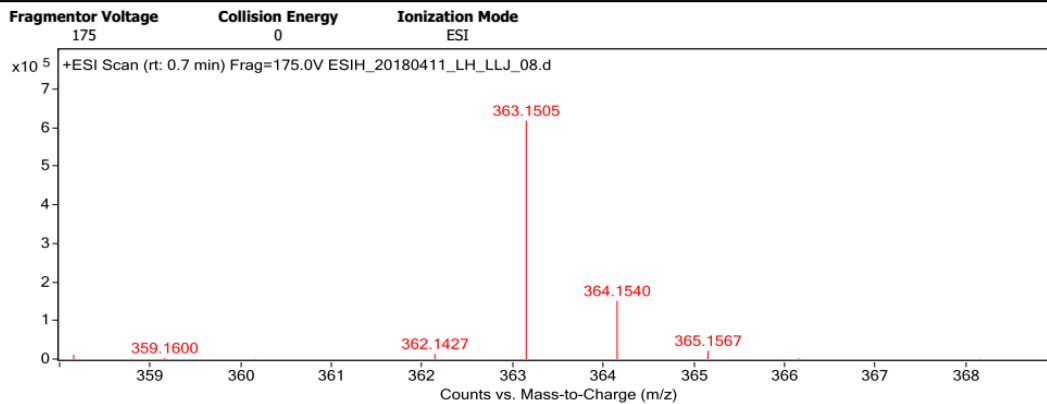
m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
55.0150	1081037.0	1.75	55.0178	-2.85	2.5	C ₃ H ₃ O ₁
55.0514	3487798.0	5.64	55.0542	-2.84	1.5	C ₄ H ₇
56.0598	1148753.0	1.86	56.0621	-2.23	1.0	C ₄ H ₈
57.0681	4231560.0	6.84	57.0699	-1.77	0.5	C ₄ H ₉
60.0195	1429317.0	2.31	60.0206	-1.07	1.0	C ₂ H ₄ O ₂
67.0543	1460869.0	2.36	67.0542	0.03	2.5	C ₅ H ₇
68.0621	726967.0	1.18	68.0621	0.03	2.0	C ₅ H ₈
69.0700	3105325.0	5.02	69.0699	0.14	1.5	C ₅ H ₉
70.0764	916502.0	1.48	70.0777	-1.31	1.0	C ₅ H ₁₀
71.0842	2614743.0	4.23	71.0855	-1.38	0.5	C ₅ H ₁₁
73.0276	1823240.0	2.95	73.0284	-0.85	1.5	C ₃ H ₅ O ₂
77.0383	1422924.0	2.30	77.0386	-0.27	4.5	C ₆ H ₅
79.0539	783297.0	1.27	79.0542	-0.37	3.5	C ₆ H ₇
81.0699	1634437.0	2.64	81.0699	0.05	2.5	C ₆ H ₉
82.0775	985077.0	1.59	82.0777	-0.16	2.0	C ₆ H ₁₀
83.0492	546180.0	0.88	83.0491	0.05	2.5	C ₅ H ₇ O ₁
83.0855	2475463.0	4.00	83.0855	-0.02	1.5	C ₆ H ₁₁
84.0570	886031.0	1.43	84.0570	0.07	2.0	C ₅ H ₈ O ₁
85.1012	1609564.0	2.60	85.1012	0.03	0.5	C ₆ H ₁₃
87.0440	714690.0	1.16	87.0441	-0.05	1.5	C ₄ H ₇ O ₂
91.0539	908773.0	1.47	91.0542	-0.37	4.5	C ₇ H ₇
93.0697	563164.0	0.91	93.0699	-0.18	3.5	C ₇ H ₉
95.0857	1508738.0	2.44	95.0855	0.13	2.5	C ₇ H ₁₁
96.0934	707438.0	1.14	96.0934	0.00	2.0	C ₇ H ₁₂
97.0649	681484.0	1.10	97.0648	0.08	2.5	C ₆ H ₉ O ₁
97.1012	1911630.0	3.09	97.1012	0.03	1.5	C ₇ H ₁₃
98.0726	1153460.0	1.86	98.0726	0.00	2.0	C ₆ H ₁₀ O ₁
102.0413	869747.0	1.41	102.0424	-1.09	2.0	C ₃ H ₆ O ₂ N ₂
111.0943	972799.0	1.57	111.0917	2.62	2.5	C ₆ H ₁₁ N ₂
116.0371	823023.0	1.33	116.0369	0.16	7.0	C ₇ H ₄ N ₂
129.0568	932246.0	1.51	129.0573	-0.45	7.0	C ₉ H ₇ N ₁
129.0925	775218.0	1.25	129.0910	1.50	1.5	C ₇ H ₁₃ O ₂
130.0656	2478198.0	4.01	130.0651	0.47	6.5	C ₉ H ₈ N ₁
131.0724	2756536.0	4.46	131.0730	-0.58	6.0	C ₉ H ₉ N ₁
134.0964	843156.0	1.36	134.0964	0.01	4.5	C ₉ H ₁₂ N ₁
140.0496	1078015.0	1.74	140.0495	0.16	8.5	C ₁₀ H ₆ N ₁
144.0817	2393784.0	3.87	144.0808	0.97	6.5	C ₁₀ H ₁₀ N ₁
145.0890	1666148.0	2.69	145.0886	0.38	6.0	C ₁₀ H ₁₁ N ₁
146.0969	10940928.0	17.69	146.0964	0.49	5.5	C ₁₀ H ₁₂ N ₁
149.0229	797578.0	1.29	149.0238	-0.96	2.0	C ₅ H ₈ O ₂ N ₁ ³⁵ Cl ₁
172.0995	722260.0	1.17	172.0995	-0.02	7.0	C ₁₁ H ₁₂ N ₂
174.0920	61854208.0	100.00	174.0918	0.17	2.0	C ₈ H ₁₅ N ₂ ³⁵ Cl ₁
189.0559	630689.0	1.02	189.0551	0.83	3.0	C ₈ H ₁₂ O ₂ N ₁ ³⁵ Cl ₁
255.1124	843729.0	1.36	255.1128	-0.43	9.5	C ₁₅ H ₁₅ O ₂ N ₂
257.0969	1730301.0	2.80	257.0966	0.31	9.0	C ₁₆ H ₁₆ N ₁ ³⁵ Cl ₁
378.1137	17430016.0	28.18	378.1130	0.79	14.0	C ₂₂ H ₁₉ O ₂ N ₂ ³⁵ Cl ₁

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-fluorophenyl)allylidene)oxazol-5(4H)-one (SOD8)



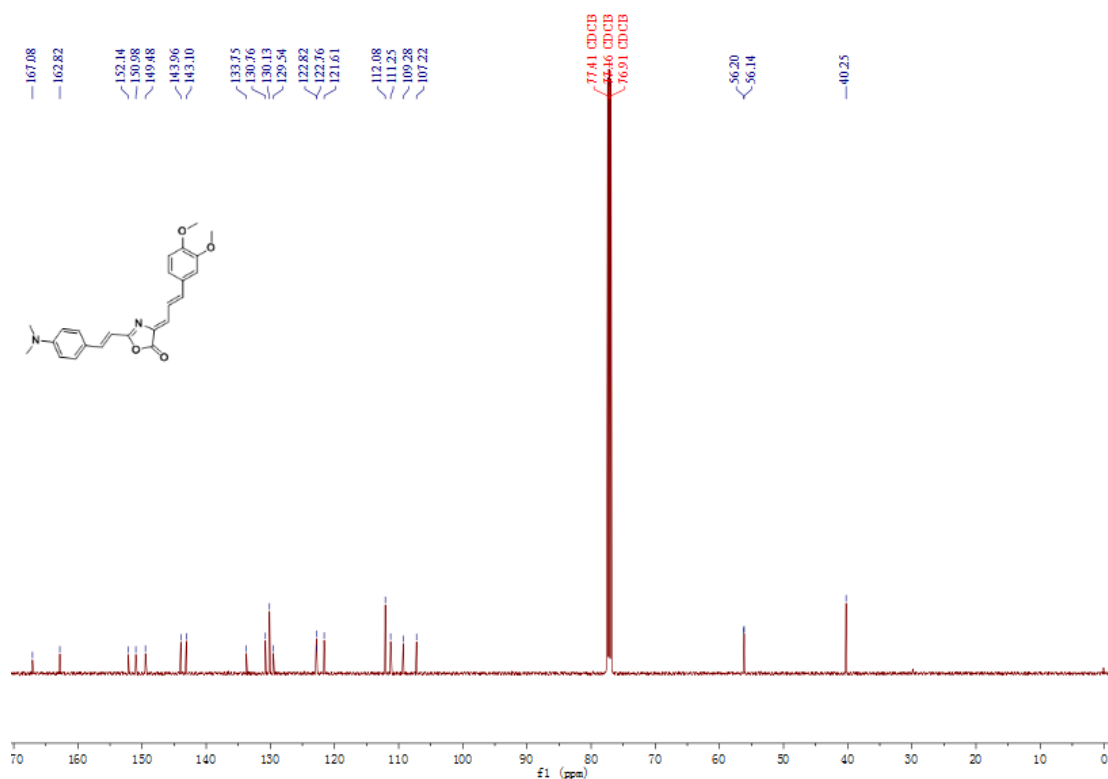
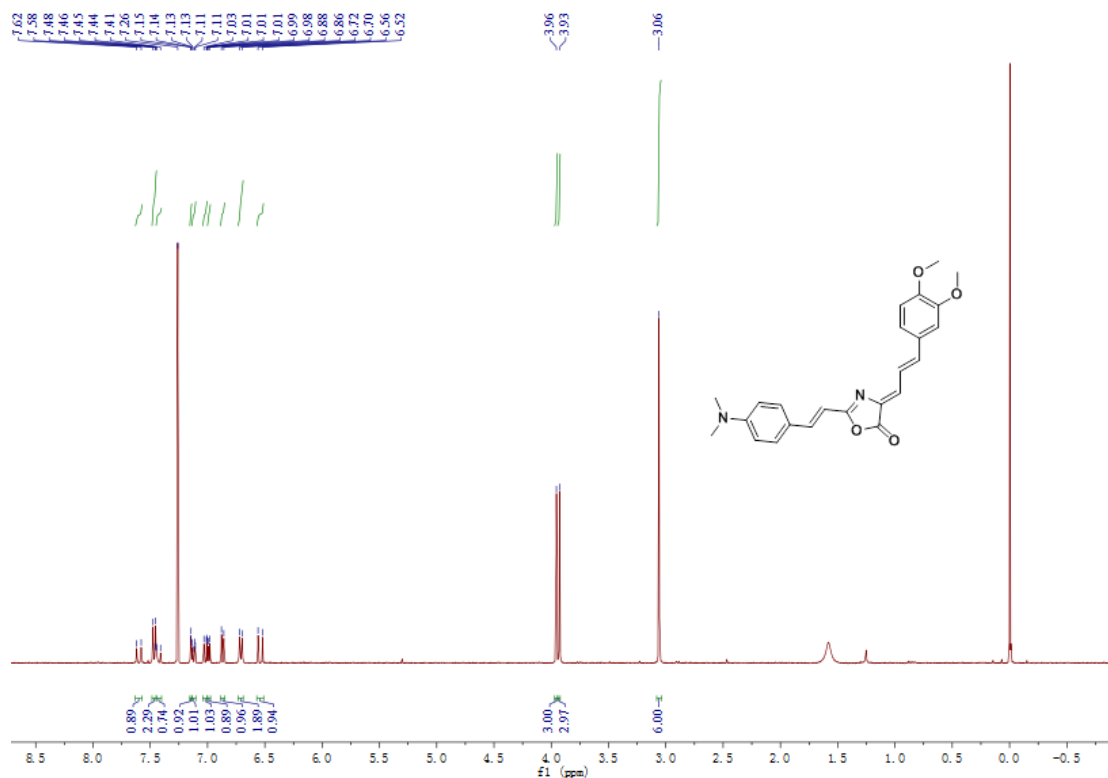
User Spectra



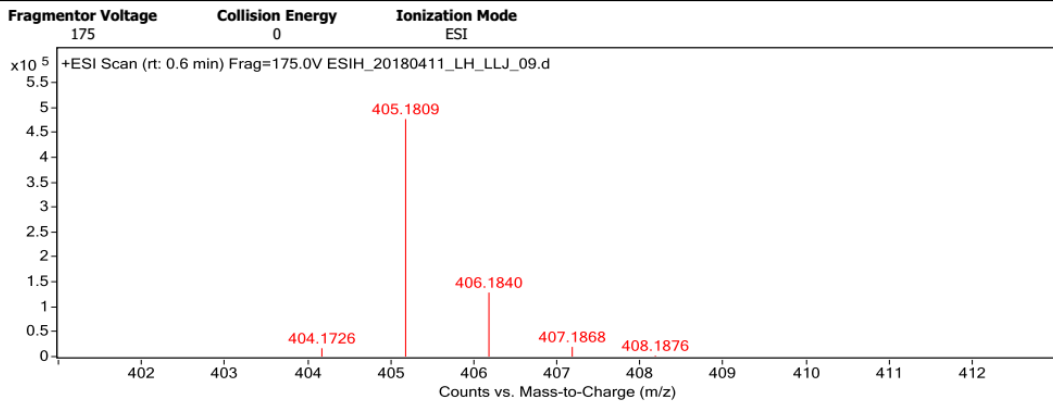
Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
363.1505	363.1503	-0.14	-0.4	C22 H20 F N2 O2	(M+H) ⁺

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(3,4-dimethoxyphenyl)allylidene)-oxazol-5(4H)-one (SOD9)



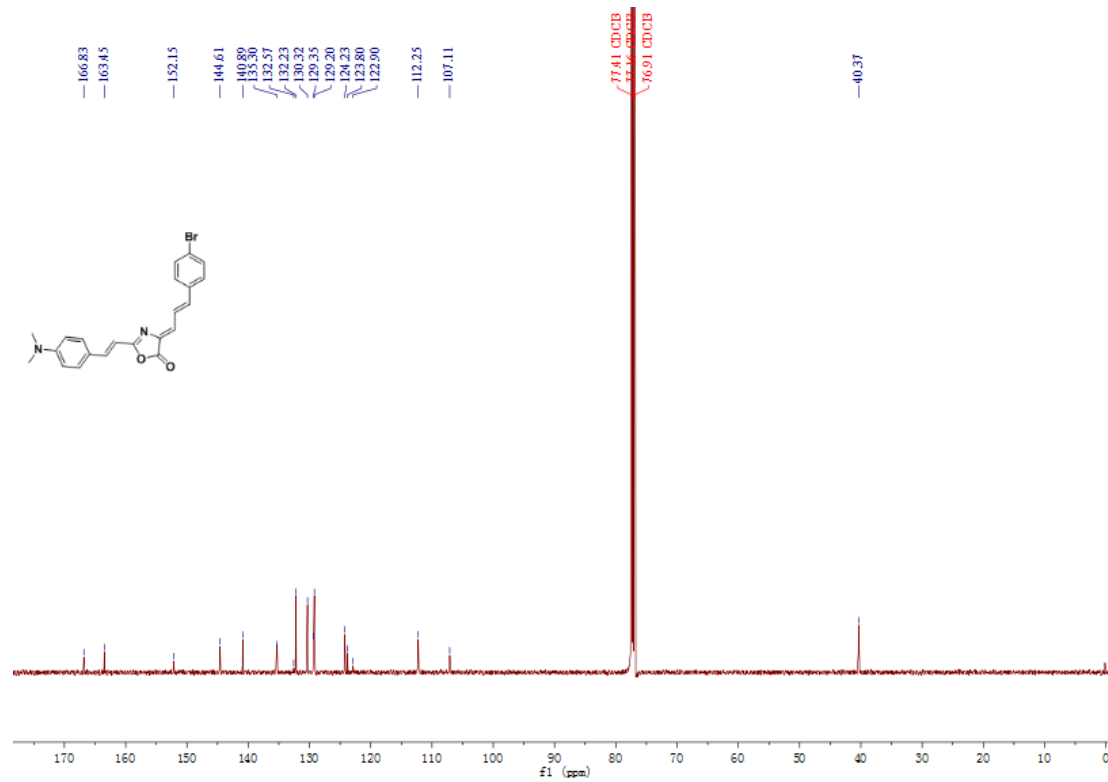
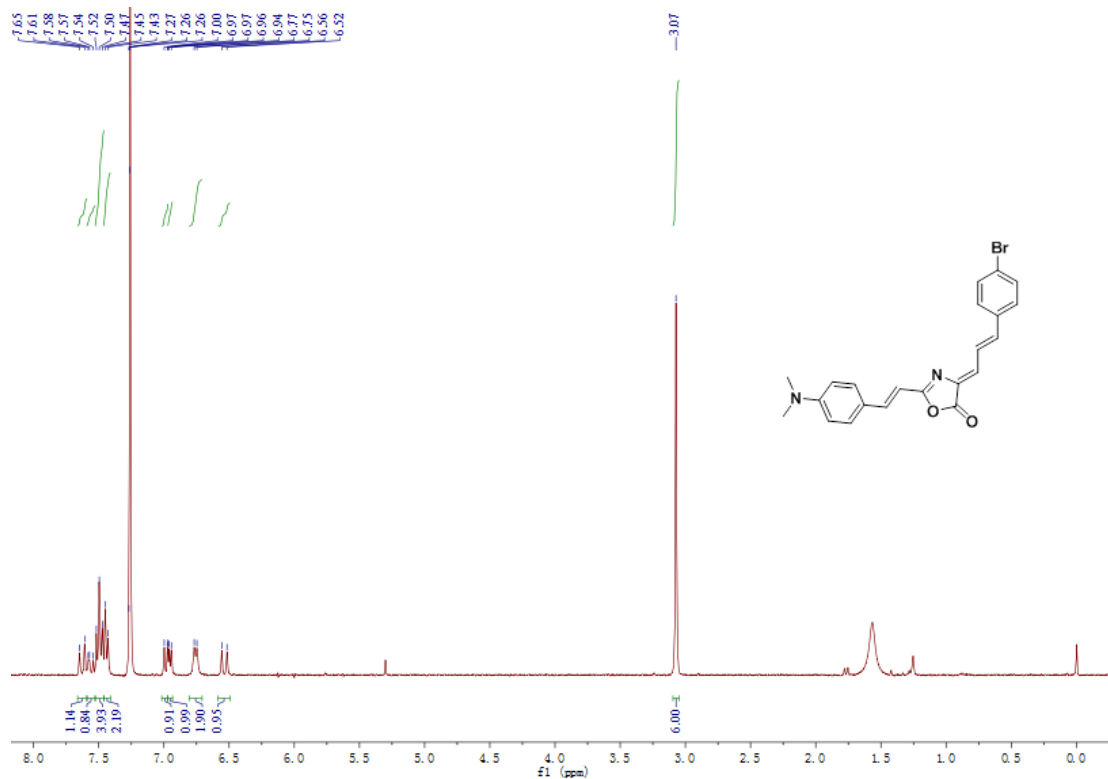
User Spectra



Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
405.1809	405.1809	0.01	0.03	C ₂₄ H ₂₅ N ₂ O ₄	(M+H) ⁺

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((E)-3-(4-bromophenyl)allylidene)-oxazol-5(4H)-one (SOD10)

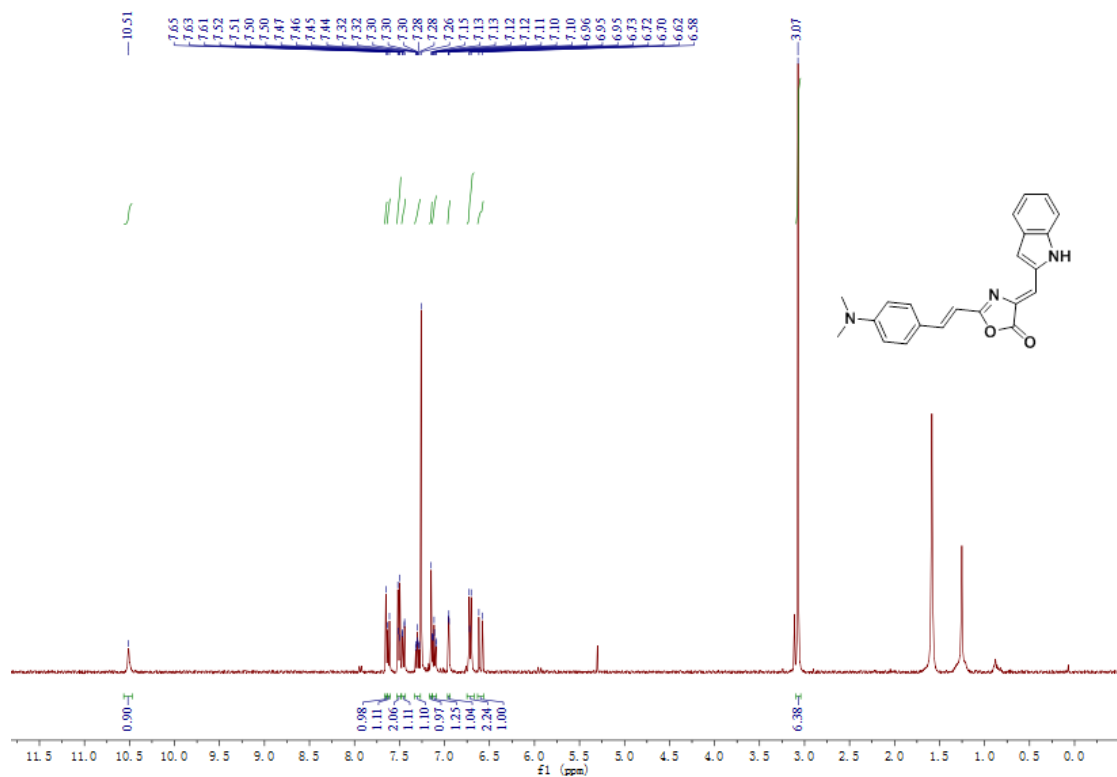
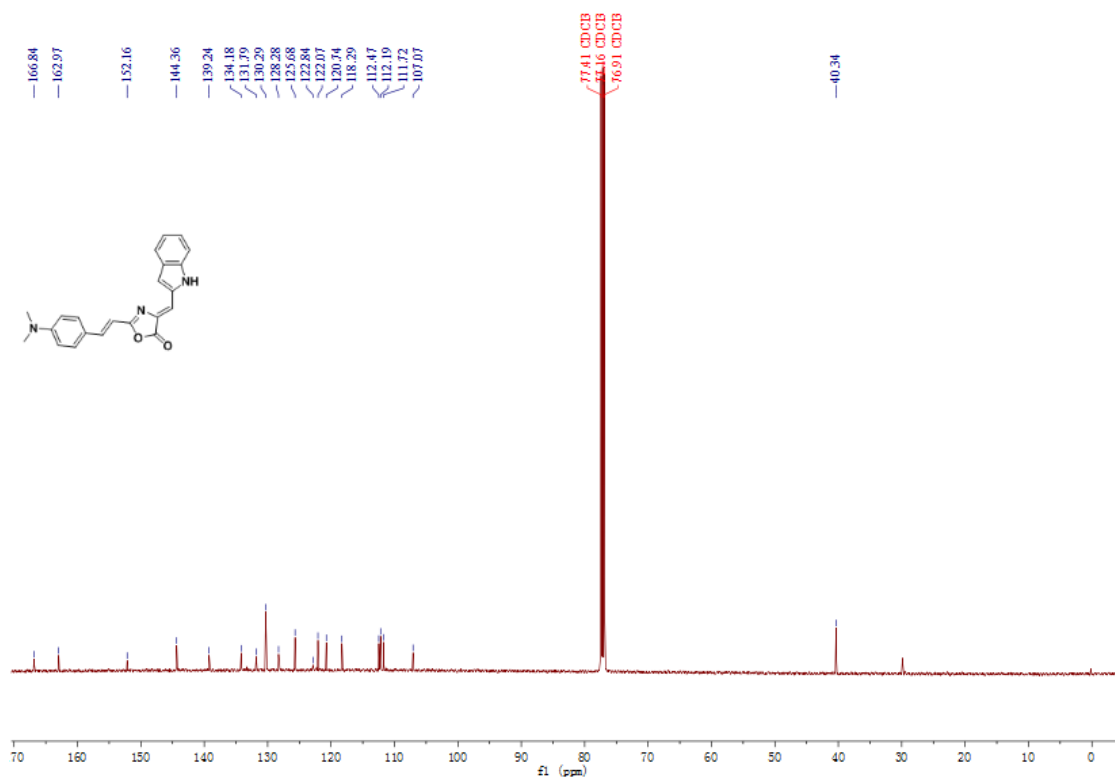


T: + c EI Full ms [49.50-800.50]

m/z= 48-803

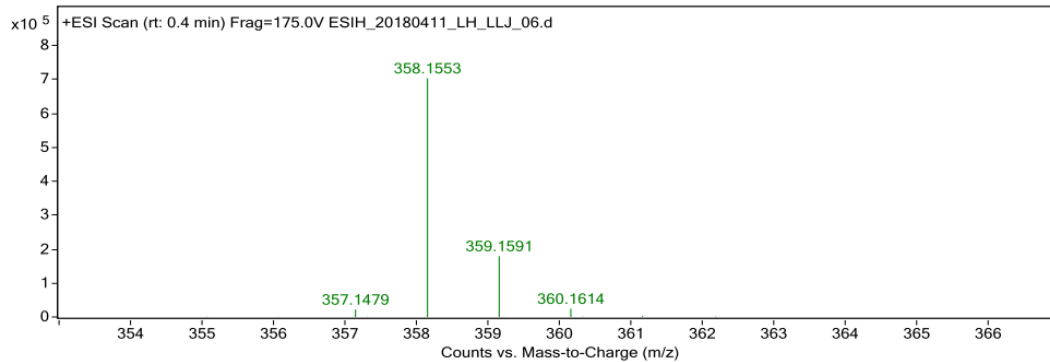
m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
57.0718	224521.0	1.72	57.0699	1.88	0.5	C ₄ H ₉
61.0081	157314.0	1.20	61.0073	0.80	5.5	C ₅ H ₁
62.0158	229101.0	1.75	62.0151	0.74	5.0	C ₅ H ₂
63.0232	537337.0	4.12	63.0229	0.30	4.5	C ₅ H ₃
65.0387	191601.0	1.47	65.0386	0.11	3.5	C ₅ H ₅
74.0138	311893.0	2.39	74.0151	-1.32	6.0	C ₆ H ₂
75.0217	425442.0	3.26	75.0229	-1.22	5.5	C ₆ H ₃
76.0294	325920.0	2.50	76.0308	-1.39	5.0	C ₆ H ₄
77.0378	1087366.0	8.33	77.0386	-0.80	4.5	C ₆ H ₅
78.0450	154706.0	1.18	78.0464	-1.40	4.0	C ₆ H ₆
79.0537	172200.0	1.32	79.0542	-0.55	3.5	C ₆ H ₇
89.0387	426238.0	3.26	89.0386	0.08	5.5	C ₇ H ₅
91.0542	278465.0	2.13	91.0542	0.00	4.5	C ₇ H ₇
101.0385	338038.0	2.59	101.0386	-0.09	6.5	C ₈ H ₅
102.0462	631294.0	4.84	102.0464	-0.15	6.0	C ₈ H ₆
103.0547	949072.0	7.27	103.0542	0.47	5.5	C ₈ H ₇
104.0508	190520.0	1.46	104.0495	1.29	5.5	C ₇ H ₆ N ₁
105.0586	168828.0	1.29	105.0573	1.29	5.0	C ₇ H ₇ N ₁
113.0398	255978.0	1.96	113.0386	1.25	7.5	C ₉ H ₅
114.0473	461256.0	3.53	114.0464	0.92	7.0	C ₉ H ₆
115.0549	437847.0	3.35	115.0542	0.63	6.5	C ₉ H ₇
116.0498	372103.0	2.85	116.0495	0.36	6.5	C ₈ H ₆ N ₁
118.0640	168319.0	1.29	118.0651	-1.15	5.5	C ₈ H ₈ N ₁
119.0724	188739.0	1.45	119.0730	-0.56	5.0	C ₈ H ₉ N ₁
128.0494	236608.0	1.81	128.0495	-0.11	7.5	C ₉ H ₆ N ₁
129.0569	219973.0	1.68	129.0573	-0.36	7.0	C ₉ H ₇ N ₁
130.0648	1291309.0	9.89	130.0651	-0.29	6.5	C ₉ H ₈ N ₁
131.0729	1318663.0	10.10	131.0730	-0.10	6.0	C ₉ H ₉ N ₁
134.0959	280087.0	2.15	134.0964	-0.54	4.5	C ₉ H ₁₂ N ₁
140.0497	637941.0	4.89	140.0495	0.21	8.5	C ₁₀ H ₆ N ₁
141.0570	1051011.0	8.05	141.0573	-0.29	8.0	C ₁₀ H ₇ N ₁
142.0632	223980.0	1.72	142.0651	-1.91	7.5	C ₁₀ H ₈ N ₁
144.0804	1164242.0	8.92	144.0808	-0.41	6.5	C ₁₀ H ₁₀ N ₁
145.0882	652986.0	5.00	145.0886	-0.40	6.0	C ₁₀ H ₁₁ N ₁
146.0962	4123450.0	31.58	146.0964	-0.18	5.5	C ₁₀ H ₁₂ N ₁
149.0236	440614.0	3.37	149.0260	-2.39	11.0	C ₁₁ H ₃ N ₁
160.0749	198917.0	1.52	160.0757	-0.80	6.5	C ₁₀ H ₁₀ O ₁ N ₁
171.0911	169210.0	1.30	171.0917	-0.55	7.5	C ₁₁ H ₁₁ N ₂
172.0747	144592.0	1.11	172.0757	-0.95	7.5	C ₁₁ H ₁₀ O ₁ N ₁
172.0981	317173.0	2.43	172.0995	-1.38	7.0	C ₁₁ H ₁₂ N ₂
174.0914	13056512.0	100.00	174.0913	0.02	6.5	C ₁₁ H ₁₂ O ₁ N ₁
301.0472	248122.0	1.90	301.0461	1.10	9.0	C ₁₆ H ₁₆ N ₁ ⁷⁹ Br ₁
303.0449	252002.0	1.93	303.0441	0.82	19.5	C ₂₂ H ₇ O ₂
422.0618	1453713.0	11.13	422.0624	-0.68	14.0	C ₂₂ H ₁₉ O ₂ N ₂ ⁷⁹ Br ₁

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((1H-indol-2-yl)methylene)-oxazol-5(4H)-one (SOD11)



User Spectra

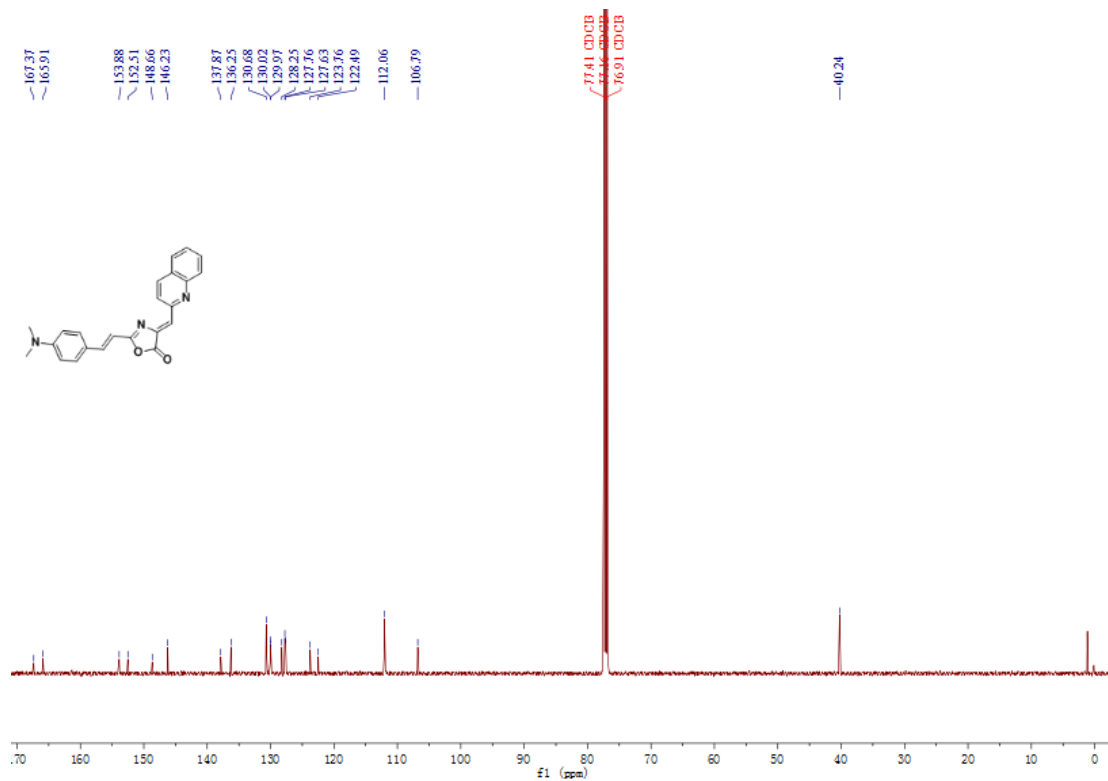
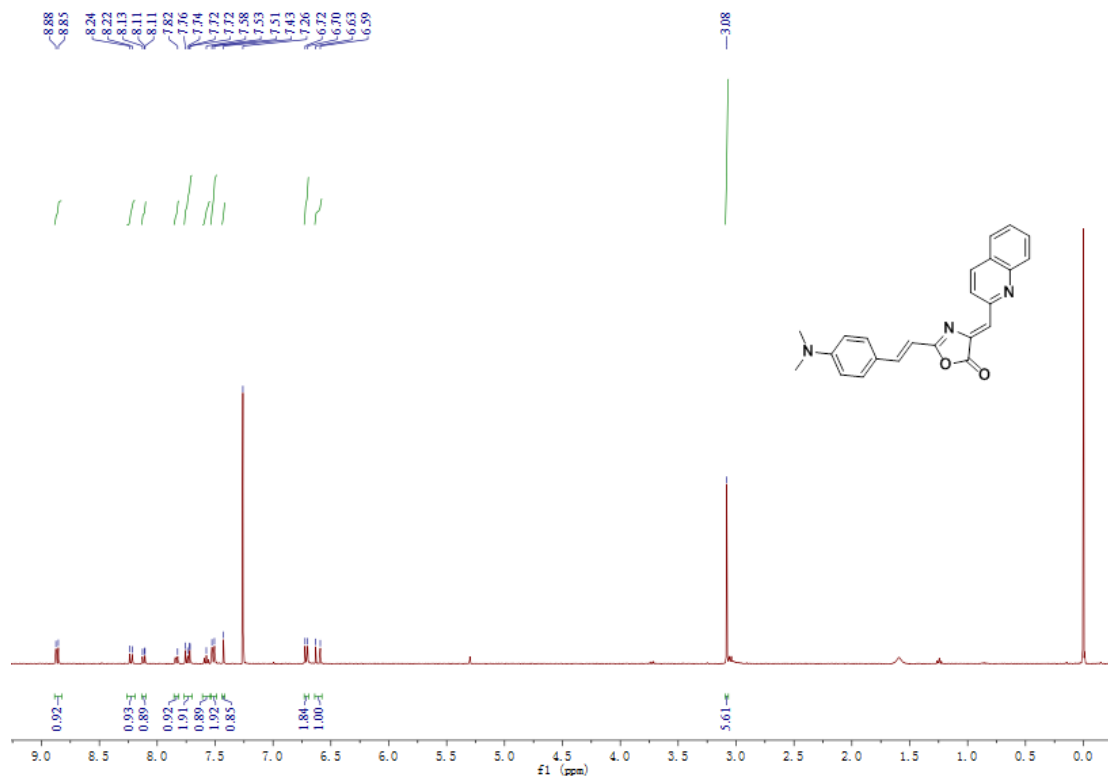
Fragmentor Voltage 175 Collision Energy 0 Ionization Mode ESI



Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
358.1553	358.155	-0.31	-0.87	C22 H20 N3 O2	(M+H)+

(Z)-2-((E)-4-(dimethylamino)styryl)-4-((1H-indol-2-yl)methylene)-oxazol-5(4H)-one (SOD12)

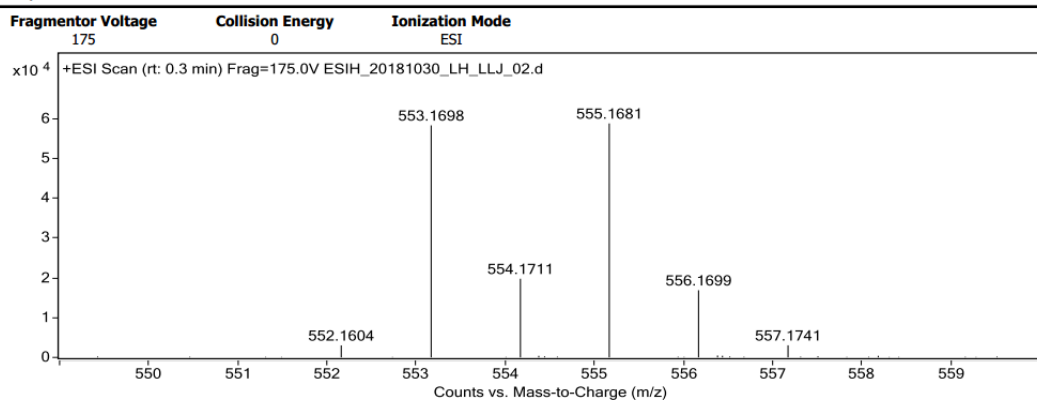


T: + c EI Full ms [49.50-800.50]

m/z= 48-803

m/z	Intensity	Relative	Theo. Mass	Delta (mmu)	RDB equiv.	Composition
51.0236	830688.0	5.10	51.0229	0.71	3.5	C ₄ H ₃
63.0464	675409.0	4.15	63.0441	2.32	-0.5	C ₂ H ₇ O ₂
69.0695	279355.0	1.72	69.0699	-0.35	1.5	C ₅ H ₉
73.0099	318255.0	1.95	73.0073	2.64	6.5	C ₆ H ₁
89.0268	588991.0	3.62	89.0260	0.81	6.0	C ₆ H ₃ N ₁
91.0489	433871.0	2.66	91.0502	-1.26	0.5	C ₂ H ₇ O ₂ N ₂
101.0383	828144.0	5.09	101.0386	-0.28	6.5	C ₈ H ₅
102.0465	1001648.0	6.15	102.0464	0.06	6.0	C ₈ H ₆
103.0541	1498910.0	9.21	103.0542	-0.17	5.5	C ₈ H ₇
115.0534	594335.0	3.65	115.0542	-0.83	6.5	C ₉ H ₇
116.0489	602604.0	3.70	116.0495	-0.58	6.5	C ₈ H ₆ N ₁
119.0726	279833.0	1.72	119.0730	-0.36	5.0	C ₈ H ₉ N ₁
128.0499	1439082.0	8.84	128.0495	0.46	7.5	C ₉ H ₆ N ₁
129.0570	878271.0	5.39	129.0573	-0.27	7.0	C ₉ H ₇ N ₁
130.0654	2082844.0	12.79	130.0651	0.29	6.5	C ₉ H ₈ N ₁
131.0730	1891719.0	11.62	131.0730	0.02	6.0	C ₉ H ₉ N ₁
132.0784	279992.0	1.72	132.0768	1.62	1.5	C ₄ H ₁₀ O ₂ N ₃
134.0969	534825.0	3.28	134.0964	0.52	4.5	C ₉ H ₁₂ N ₁
140.0500	760873.0	4.67	140.0495	0.48	8.5	C ₁₀ H ₆ N ₁
142.0654	333299.0	2.05	142.0651	0.32	7.5	C ₁₀ H ₈ N ₁
143.0731	456613.0	2.80	143.0730	0.18	7.0	C ₁₀ H ₉ N ₁
144.0815	1702280.0	10.46	144.0808	0.72	6.5	C ₁₀ H ₁₀ N ₁
145.0882	1124389.0	6.91	145.0886	-0.40	6.0	C ₁₀ H ₁₁ N ₁
146.0963	6062561.0	37.24	146.0964	-0.13	5.5	C ₁₀ H ₁₂ N ₁
147.1004	850853.0	5.23	147.1002	0.21	1.0	C ₅ H ₁₃ O ₂ N ₃
149.0233	770797.0	4.73	149.0220	1.30	7.0	C ₆ H ₃ O ₂ N ₃
154.0650	466091.0	2.86	154.0651	-0.10	8.5	C ₁₁ H ₈ N ₁
168.0680	604703.0	3.71	168.0682	-0.19	9.0	C ₁₁ H ₈ N ₂
171.0918	489501.0	3.01	171.0917	0.14	7.5	C ₁₁ H ₁₁ N ₂
172.0755	300698.0	1.85	172.0757	-0.24	7.5	C ₁₁ H ₁₀ O ₁ N ₁
172.0985	353051.0	2.17	172.0995	-1.04	7.0	C ₁₁ H ₁₂ N ₂
174.0916	16281856.0	100.00	174.0913	0.28	6.5	C ₁₁ H ₁₂ O ₁ N ₁
182.0599	2288632.0	14.06	182.0600	-0.11	9.5	C ₁₂ H ₈ O ₁ N ₁
189.1026	285049.0	1.75	189.1022	0.37	6.5	C ₁₁ H ₁₃ O ₁ N ₂
190.1097	321944.0	1.98	190.1101	-0.35	6.0	C ₁₁ H ₁₄ O ₁ N ₂
213.1018	434444.0	2.67	213.1022	-0.43	8.5	C ₁₃ H ₁₃ O ₁ N ₂
312.1511	819461.0	5.03	312.1509	0.20	14.0	C ₂₃ H ₂₀ O ₁
313.1564	378623.0	2.33	313.1573	-0.99	14.0	C ₂₁ H ₁₉ N ₃
327.1493	336607.0	2.07	327.1492	0.08	14.5	C ₂₂ H ₁₉ O ₁ N ₂
340.1446	946686.0	5.81	340.1444	0.13	15.5	C ₂₂ H ₁₈ O ₁ N ₃
341.1517	939466.0	5.77	341.1523	-0.60	15.0	C ₂₂ H ₁₉ O ₁ N ₃
369.1472	2281316.0	14.01	369.1472	0.03	16.0	C ₂₃ H ₁₉ O ₂ N ₃
371.1617	314247.0	1.93	371.1628	-1.08	15.0	C ₂₃ H ₂₁ O ₂ N ₃

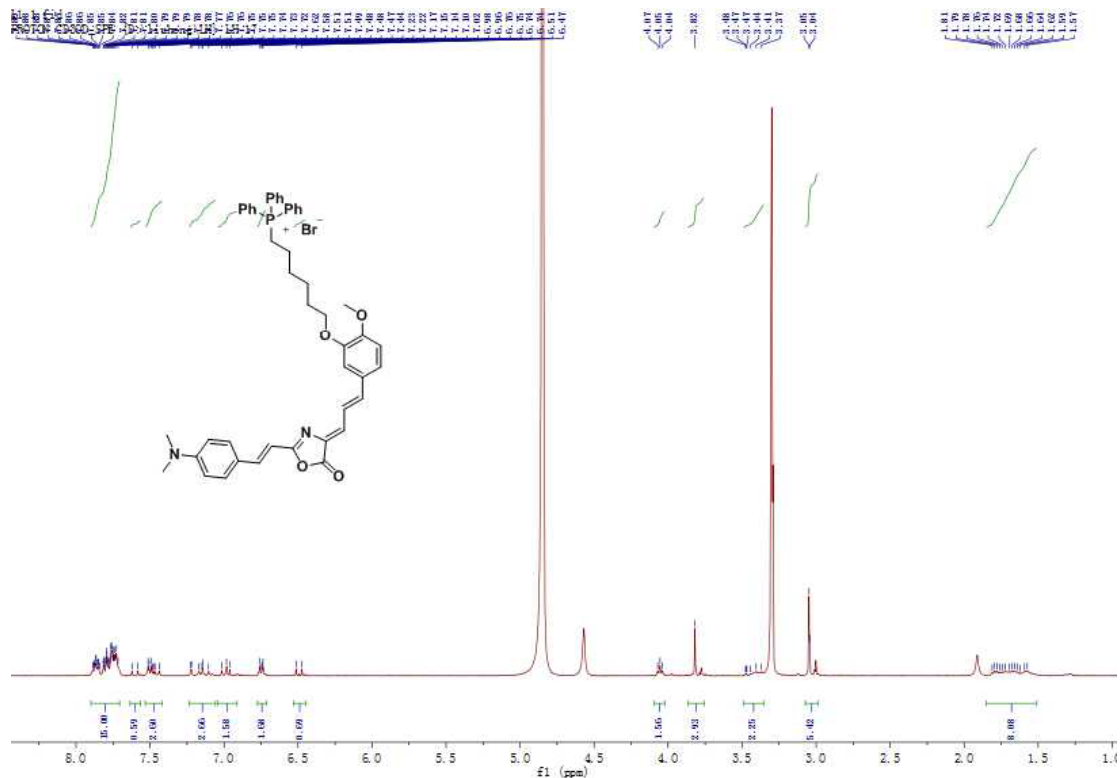
User Spectra



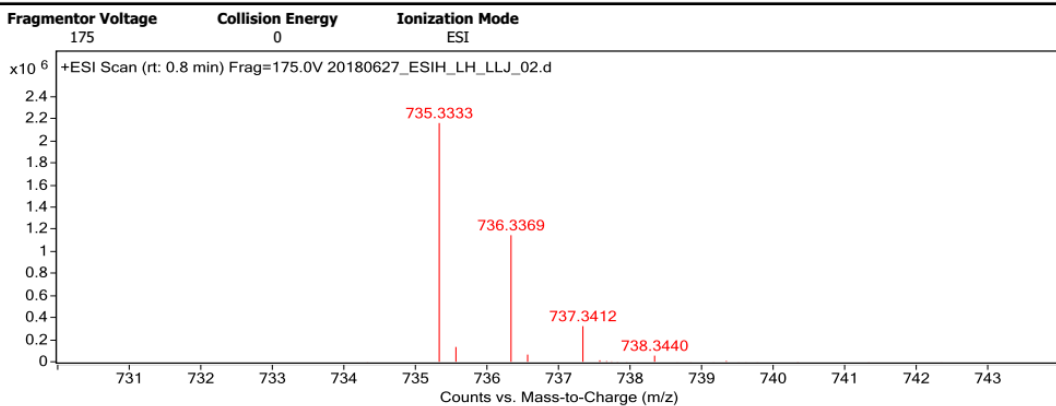
Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
553.1698	553.1696	-0.13	-0.23	C ₂₉ H ₃₄ Br N ₂ O ₄	(M+H) ⁺

(6-(5-((1E,3Z)-3-(2-((E)-4-(dimethylamino)styryl)-5-oxooxazol-4(H)-ylidene)prop-1-en-1-yl)-2-methoxyphenoxy)hexyl)triphenylphosphonium bromide(SOD9-TPP)



User Spectra



Formula Calculator Results

m/z	Calc m/z	Diff (mDa)	Diff (ppm)	Ion Formula	Ion
735.3333	735.3346	1.37	1.86	C47 H48 N2 O4 P	M+