Supporting Information

Design and Synthesis of Neuroprotective Methylthiazoles and Modification as NO-Chimeras for Neurodegenerative Therapy

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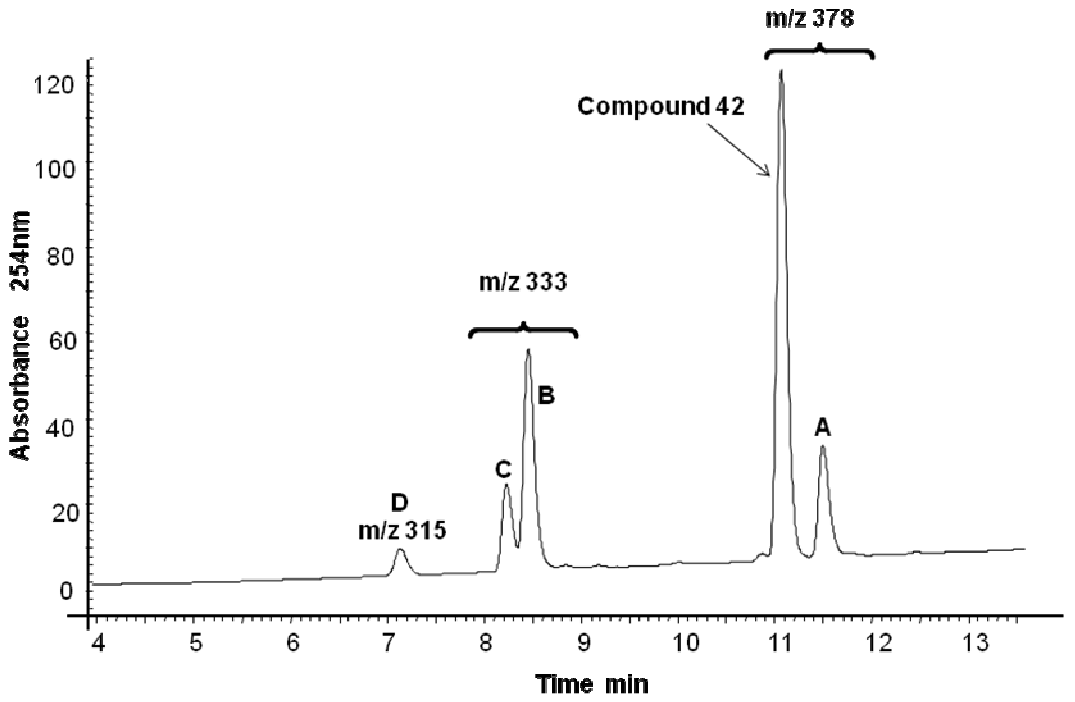
Figure S1. Decomposition of **42** (100µM) in phosphate buffer (100 mM, pH 7.4). Incubation was conducted at room temperature for 48h and analyzed by LC-MS with UV detection at 254nm. Four UV-detectable byproducts including two denitrated products (m/z = 333) were observed.



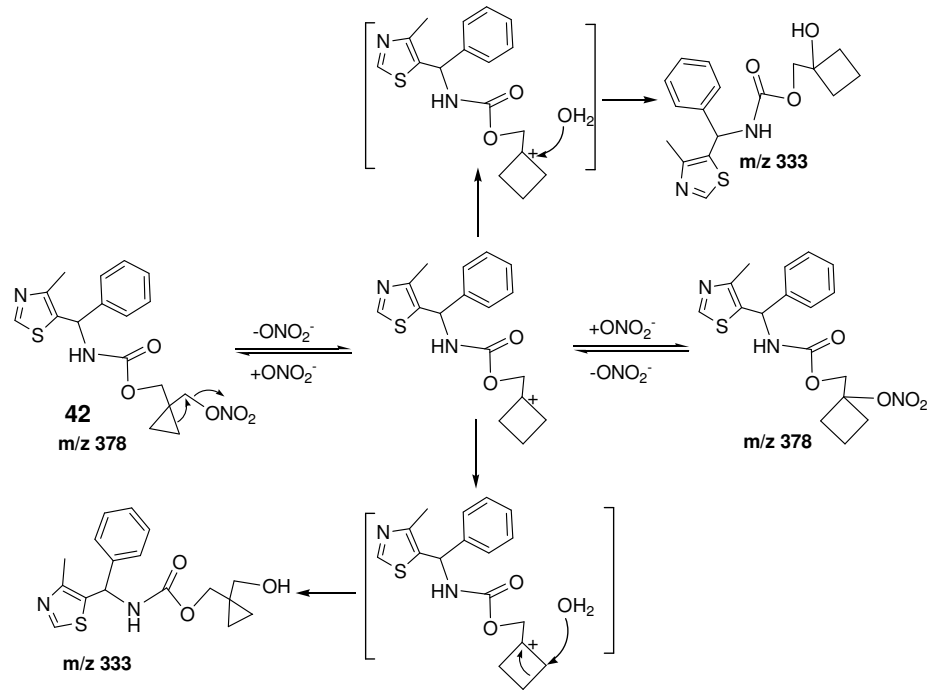


Table S1. Relative percentage neuroprotection of primary neuronal cultures in response to NMDA neurotoxicity after co-treatment with MZ derivatives.

	% after NMDA[a]		% after NMDA[a]
5a	26.7± 8.4		
CMZ	11.0 ± 5.3	**5b**	19.1 ± 11.2
10	23.9 ± 11.6	**5d**	59.0 ± 9.0
22a	-0.3 ± 5.8	**5c**	25.3 ± 11.3
22b	26.1 ± 4.8	**5i**	12.7 ± 5.3
23a	-0.3 ± 5.7	**5e**	39.6 ± 11.0
23b	21.5 ± 11.6	**5f**	19.8 ± 9.3
5g	37.1 ± 8.6		
25	5.9 ± 7.3	**5h**	29.5 ± 12.1
8	25.6 ± 9.7		
16	17.6 ± 8.1		
6a	-34.9 ± 5.1		
6b	6.7 ± 8.2	**11a**	0.6 ± 12.4
38	7.4 ± 7.1	**11b**	64.4 ±13.4
11c	18.3 ± 4.4		
26	1.7 ± 4.4		
4	21.4 ± 6.4	**30**	19.6 ± 6.2

a. Readings from MTT assay at 24 h relative to vehicle in absence of NMDA (100% survival) and presence of NMDA (0% survival): %= (Drug-NMDA)/(DMSO-NMDA), NMDA (100 μM). Values are presented as mean ± SEM (n=6).