

Supporting Information

Synthesis and Biological Evaluation of Thiazole-Based Derivatives as Potential Acetylcholinesterase Inhibitors

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Table S1. Molecular formulae, molecular weights and elemental analyses data of compounds **8, 10-21, 23, 24** and **26-33**.

Comp. No.	Mol. Formula (Mol. Wt.)	Analysis: % Calcd. (Found)			
		C	H	N	S
8	C ₂₁ H ₁₇ N ₃ OS ₂ (391.51)	64.42 (64.38)	4.38 (4.40)	10.73 (10.71)	16.38 (16.35)
10	C ₂₂ H ₁₉ N ₃ O ₃ S ₂ (437.53)	60.39 (60.21)	4.38 (4.41)	9.60 (9.57)	14.66 (14.66)
12	C ₂₀ H ₁₃ Cl ₂ N ₃ OS ₂ (446.37)	53.81 (53.88)	2.94 (3.01)	9.41 (9.38)	14.37 (14.25)
13	C ₁₈ H ₁₃ N ₃ OS ₃ (383.51)	56.37 (56.23)	3.42 (3.43)	10.96 (10.70)	25.08 (25.12)
14	C ₁₈ H ₁₂ BrN ₃ OS ₃ (462.41)	46.75 (46.70)	2.62 (2.63)	9.09 (9.0)	20.80 (20.77)
15	C ₂₁ H ₁₇ N ₃ O ₂ S ₂ (407.51)	61.89 (61.54)	4.20 (4.21)	10.31 (10.24)	15.74 (15.60)
16	C ₂₁ H ₁₇ N ₃ O ₃ S ₂ (423.51)	59.56 (59.52)	4.05 (4.13)	9.92 (9.90)	15.14 (15.12)
17	C ₂₂ H ₁₉ N ₃ O ₄ S ₂ (453.53)	58.26 (58.11)	4.22 (4.30)	9.27 (9.48)	14.14 (14.02)
18	C ₂₀ H ₁₄ ClN ₃ O ₂ S ₂ (427.93)	56.13 (55.90)	3.30 (3.33)	8.28 (8.20)	14.99 (14.89)
19	C ₂₀ H ₁₃ Cl ₂ N ₃ O ₂ S ₂ (462.37)	51.95 (51.89)	2.83 (2.81)	9.09 (8.89)	13.87 (13.80)
20	C ₁₈ H ₁₃ N ₃ O ₂ S ₃ (399.51)	54.11 (54.0)	3.28 (3.32)	10.52 (10.39)	24.08 (23.88)
21	C ₁₈ H ₁₂ BrN ₃ O ₂ S ₃ (478.41)	45.19 (45.20)	2.53 (2.60)	8.78 (8.65)	20.11 (20.01)
23	C ₂₂ H ₁₆ N ₄ O ₄ S ₂ (464.52)	56.88 (56.72)	3.47 (3.50)	12.06 (11.93)	13.81 (13.77)
24	C ₁₃ H ₁₅ N ₃ S ₂ (277.41)	56.28 (56.12)	5.45 (5.48)	15.15 (15.08)	23.12 (22.97)
26	C ₁₃ H ₁₅ N ₃ OS ₂ (293.41)	53.22 (53.0)	5.15 (5.21)	14.32 (14.28)	21.86 (21.72)
27	C ₁₈ H ₁₇ N ₃ OS ₂ (355.48)	60.82 (60.52)	4.82 (4.90)	11.82 (12.02)	18.04 (17.88)
28	C ₁₅ H ₁₅ N ₃ OS ₂ (317.43)	56.76 (56.50)	4.76 (4.81)	13.24 (13.05)	20.20 (20.18)
29	C ₂₀ H ₁₇ N ₃ OS ₂ (379.5)	63.30 (63.22)	4.52 (4.52)	11.07 (10.89)	16.90 (16.88)
30	C ₁₅ H ₁₅ N ₃ O ₂ S ₂ (333.43)	54.03 (53.78)	4.53 (4.66)	12.60 (12.46)	19.23 (19.24)
31	C ₂₀ H ₁₇ N ₃ O ₂ S ₂ (395.5)	60.74 (60.77)	4.33 (3.32)	10.62 (10.40)	16.22 (16.12)
32	C ₂₉ H ₂₅ N ₃ O ₄ S ₂ (543.66)	64.07 (63.78)	4.64 (4.66)	7.73 (7.65)	11.80 (11.75)
33	C ₂₇ H ₁₉ Cl ₂ N ₃ O ₂ S ₂ (552.49)	58.70 (58.44)	3.47 (3.50)	7.61 (7.56)	11.61 (11.60)