

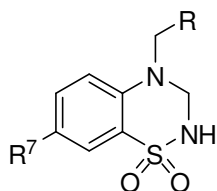
New Fluorinated 1,2,4-Benzothiadiazine 1,1-dioxides: Discovery of an Orally Active Cognitive Enhancer Acting Through Potentiation of the 2-Amino-3-(3-hydroxy-5-methylisoxazol-4-yl)propionic Acid Receptors.

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with R⁷ = H, halogens, CH₃, OCH₃, NO₂, CF₃
R = CH₂F, CHF₂, CF₃, CH₂OH

Supplementary Information available: Elemental Analyses for the new compounds (S2).

Compound	Formula	% Calculated C, H, N, S	% Found C, H, N, S
11a	C ₉ H ₈ F ₂ N ₂ O ₂ S	43.90, 3.27, 11.38, 13.02	43.94, 3.40, 11.16, 12.96
11b	C ₉ H ₈ ClFN ₂ O ₂ S	41.15, 3.07, 10.66, 12.21	40.96, 3.01, 10.64, 12.14
11c	C ₉ H ₈ BrFN ₂ O ₂ S	35.19, 2.63, 9.12, 10.44	35.17, 2.61, 9.07, 10.41
11d	C ₉ H ₈ FIN ₂ O ₂ S	30.52, 2.28, 7.91, 9.05	30.49, 2.30, 7.93, 9.00
11e	C ₁₀ H ₁₁ FN ₂ O ₂ S	49.58, 4.58, 11.56, 13.24	49.57, 4.59, 11.51, 13.14
11f	C ₁₀ H ₁₁ FN ₂ O ₃ S	46.50, 4.29, 10.85, 12.42	46.47, 4.32, 10.91, 12.34
11g	C ₉ H ₈ FN ₃ O ₄ S	39.56, 2.95, 15.38, 11.74	39.52, 2.91, 15.36, 11.63
11h	C ₁₀ H ₈ F ₄ N ₂ O ₂ S	40.54, 2.72, 9.46, 10.82	40.52, 2.74, 9.39, 10.69
12a	C ₉ H ₁₀ F ₂ N ₂ O ₂ S	43.54, 4.06, 11.28, 12.92	43.52, 4.04, 11.31, 12.89
12b	C ₉ H ₁₀ ClFN ₂ O ₂ S	40.84, 3.81, 10.58, 12.11	40.81, 3.77, 10.56, 12.08
12c	C ₉ H ₁₀ BrFN ₂ O ₂ S	34.97, 3.26, 9.06, 10.37	34.87, 3.28, 9.02, 10.32
12d	C ₉ H ₁₀ FIN ₂ O ₂ S	30.35, 2.83, 7.87, 9.00	30.31, 2.80, 7.77, 8.91
12e	C ₁₀ H ₁₃ FN ₂ O ₂ S	49.17, 5.36, 11.47, 13.13	49.14, 5.36, 11.41, 13.00
12f	C ₁₀ H ₁₃ FN ₂ O ₃ S	46.14, 5.03, 10.76, 12.32	46.12, 5.06, 10.72, 12.28
12g	C ₉ H ₁₀ FN ₃ O ₄ S	39.27, 3.66, 15.27, 11.65	39.25, 3.61, 15.24, 11.45
12h	C ₁₀ H ₁₀ F ₄ N ₂ O ₂ S	40.27, 3.38, 9.39, 10.75	40.21, 3.35, 9.31, 10.55
14	C ₈ H ₇ ClF ₂ N ₂ O ₃ S	33.75, 2.48, 9.84, 11.26	33.79, 2.41, 9.89, 11.16
15	C ₈ H ₉ ClF ₂ N ₂ O ₂ S	35.50, 3.35, 10.35, 11.85	35.42, 3.39, 10.45, 11.49
16	C ₉ H ₇ ClF ₂ N ₂ O ₂ S	38.51, 2.51, 9.98, 11.42	38.39, 2.41, 9.88, 11.24
17	C ₉ H ₉ ClF ₂ N ₂ O ₂ S	38.24, 3.21, 9.91, 11.34	38.17, 3.17, 10.02, 11.09
19	C ₈ H ₈ F ₃ N ₃ O ₄ S	32.11, 2.69, 14.04, 10.72	32.02, 2.65, 14.01, 10.59
20	C ₉ H ₆ F ₃ N ₃ O ₄ S	34.96, 1.96, 13.59, 10.37	34.91, 1.92, 13.49, 10.30
21	C ₉ H ₈ F ₃ N ₃ O ₄ S	34.73, 2.59, 13.50, 10.30	34.69, 2.55, 13.45, 10.20
22	C ₉ H ₈ F ₃ N ₃ O ₂ S	38.71, 2.89, 15.05, 11.48	38.76, 2.81, 14.98, 11.45
24	C ₉ H ₆ ClF ₃ N ₂ O ₂ S	36.19, 2.02, 9.38, 10.74	36.11, 2.00, 9.29, 10.69
25	C ₉ H ₈ ClF ₃ N ₂ O ₂ S	35.95, 2.68, 9.32, 10.66	35.91, 2.66, 9.28, 10.56
26	C ₁₀ H ₉ ClN ₂ O ₄ S	41.60, 3.14, 9.70, 11.11	41.65, 3.14, 9.72, 11.05
27	C ₉ H ₁₁ ClN ₂ O ₃ S	41.15, 4.22, 10.66, 12.21	41.19, 4.24, 10.76, 12.11