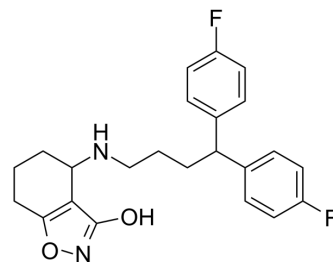


LU-32-176B

Cat. No.:	HY-118207
CAS No.:	770688-66-9
Molecular Formula:	C ₂₃ H ₂₄ F ₂ N ₂ O ₂
Molecular Weight:	398.45
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LU-32-176B, a GABA transporter 1(GAT1) selective inhibitor, is found to exert a synergistic anticonvulsant action with GAT2 transport inhibitor EF1502. LU-32-176B inhibits neurons, astrocytes and mGAT1 with the IC ₅₀ values of 2μM, 1μM, 4μM, respectively ^{[1][2]} .
IC₅₀ & Target	LU-32-176B inhibits neurons, astrocytes and mGAT1 with the IC ₅₀ values of 2μM, 1μM, 4μM, respectively ^{[1][2]} .
In Vivo	LU-32-176B (i.p.) and EF1502 can prevent sound-induced seizures in the Frings AGS-susceptible mouse model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Schousboe A, et al. GABA transporters as drug targets for modulation of GABAergic activity. *Biochem Pharmacol.* 2004;68(8):1557-1563.

[2]. White HS, et al. First demonstration of a functional role for central nervous system betaine/[gamma]-aminobutyric acid transporter (mGAT2) based on synergistic anticonvulsant action among inhibitors of mGAT1 and mGAT2. *J Pharmacol Exp Ther.* 2005;312(2):866-874.

Caution: Product has not been fully validated for medical applications. For research use only.

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