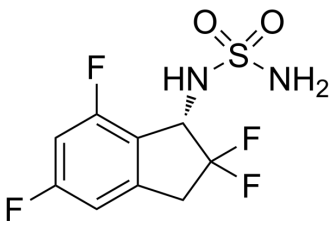
E2730

Cat. No.:	HY-155238
CAS No.:	1520073-91-9
Molecular Formula:	$C_9H_8F_4N_2O_2S$
Molecular Weight:	284.23
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	E2730 is a noncompetitive but selective inhibitor of gamma-aminobutyric acid (GABA) transporter 1 (GAT1) with orally available and antiepileptic activity. E2730-mediated GAT1 inhibition is positively correlated with environmental GABA levels and selectively inhibits GAT1-mediated GABA uptake. E2730 (5-50 mg/kg; po) in rat amygdala ignition model, and in mouse cornea ignition (5-50 mg/kg), drug resistance 6Hz-44mA has demonstrated in vivo efficacy in models of psychomotor epilepsy (5-50 mg/kg), fragile X syndrome (2.5-300 mg/kg), and Dravet syndrome (10 mg/kg, 20 mg/kg)[1].
IC_{50} & Target	γ-aminobutyric acid (GABA) transporter 1 (GAT1)[1]

REFERENCES

[1]. Fukushima K, et al. Discovery of E2730, a novel selective uncompetitive GAT1 inhibitor, as a candidate for anti-seizure medication. Epilepsia Open. 2023 Sep;8(3):834-845..

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