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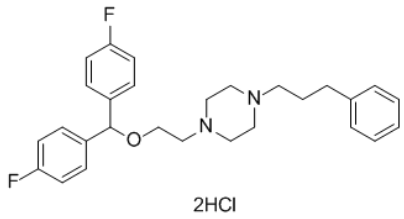
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Vanoxerine dihydrochloride
Cat. No.	:	PC-43399
CAS No.	:	67469-78-7
Molecular Formula	:	$C_{28}H_{32}F_2N_2O$
Molecular Weight	:	450.5633
Target	:	Monoamine Transporter
Solubility	:	DMSO: 9.4 mg/mL



Biological Activity

Vanoxerine (GBR-12909, I-893, Boxeprazine) is a highly potent inhibitor of **dopamine uptake** in vitro in tissue slices obtained from rat neostriatum with IC50 of 40-50 nM, also inhibits norepinephrine uptake with IC50 of 560-2600 nM.
Vanoxerine also is a potent hK(v)11.1 blocker, and at submicromolar concentrations.
Vanoxerine blocks Ca and Na currents in a strongly frequency-dependent manner possesses anticonvulsant activity in zebrafish and rodent models of generalized epilepsy but with cardiac ion channel effects.
Vanoxerine also is a cancer-specific downregulator of **G9a** expression, suppresses cancer stem cell functions in colon tumors.

References

Teicher MH, et al. Brain Res. 1986 Nov;395(1):124-8.

Heikkila RE, et al. Eur J Pharmacol. 1984 Aug 17;103(3-4):241-8.

Lacerda AE, et al. J Cardiovasc Electrophysiol. 2010 Mar;21(3):301-10.

Goldsmith P, et al. Pharmacology. 2007;79(4):250-8.

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