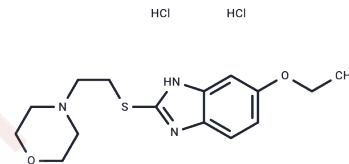


Fabomotizole dihydrochloride

Chemical Properties

CAS No. : 189638-30-0
 Formula: C₁₅H₂₃Cl₂N₃O₂S
 Molecular Weight: 380.33
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Fabomotizole, also known as Afobazole, Obenoxazine and CM346, is an anxiolytic drug launched in Russia in the early 2000s. It produces anxiolytic and neuroprotective effects without any sedative or muscle relaxant actions. Its mechanism of action remains poorly defined however, with GABAergic, NGF- and BDNF-release-promoting, MT1 receptor agonism, MT3 receptor antagonism, and sigma agonism suggested as potential mechanisms. Fabomotizole was shown to inhibit MAO-A reversibly and there might be also some involvement with serotonin receptors.
Targets(IC50)	Others,Endogenous Metabolite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6293 mL	13.1465 mL	26.293 mL
5 mM	0.5259 mL	2.6293 mL	5.2586 mL
10 mM	0.2629 mL	1.3146 mL	2.6293 mL
50 mM	0.0526 mL	0.2629 mL	0.5259 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Kryzhanovskii SA, et al. Angiogenic Effects of Anxiolytic Fabomotizole. Dokl Biochem Biophys. 2021 Mar;497(1):63-65.
- Voronin MV, et al. Involvement of Chaperone Sigma1R in the Anxiolytic Effect of Fabomotizole. Int J Mol Sci. 2021 May 21;22(11):5455.
- Tsolin IB, et al. Anti-Ischemic Activity of Fabomotizole Hydrochloride under Conditions of Endothelial Dysfunction. Bull Exp Biol Med. 2019 Sep;167(5):634-636.

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