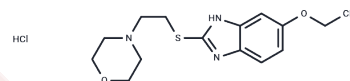


Fabomotizole hydrochloride

Chemical Properties

CAS No. :	173352-39-1
Formula:	C ₁₅ H ₂₂ ClN ₃ O ₂ S
Molecular Weight:	343.87
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Fabomotizole hydrochloride (CM346 hydrochloride), an anxiolytic drug, produces anxiolytic and neuroprotective effects. The mechanism of Afobazole remains poorly defined, however, with GABAergic, NGF, and BDNF release promoting, MT1 receptor antagonism, MT3 receptor antagonism, and sigma agonism suggested as potential mechanisms. Afobazole inhibits MAO-A reversibly and there might be also some involvement with serotonin receptors.
Targets(IC50)	MAO

Solubility Information

Solubility	DMSO: 50 mg/mL (145.4 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9081 mL	14.5404 mL	29.0808 mL
5 mM	0.5816 mL	2.9081 mL	5.8162 mL
10 mM	0.2908 mL	1.454 mL	2.9081 mL
50 mM	0.0582 mL	0.2908 mL	0.5816 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.

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.
- Tsorin 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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