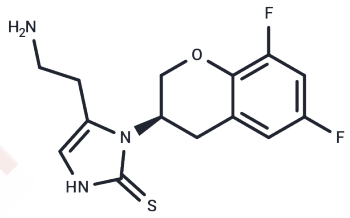
Data Sheet (Cat.No.T11238)

TargetMol

Etamicastat

Chemical Properties



CAS No. : 760173-05-5

Formula: C14H15F2N3OS

Molecular Weight: 311.35

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	Etamicastat can be used in the research of cardiovascular diseases. Etamicastat (BIA 5-453) is a potent and reversible dopamine-β-hydroxylase (DBH) inhibitor with an IC50 value of 107 nM.
Targets(IC50)	Dehydrogenase,Hydroxylase
In vitro	Etamicastat inhibits the hERG current amplitude with an IC50 value of 44 μg/mL.
In vivo	Etamicastat (50 mg/kg;?a single oral administration) exhibits moderate oral bioavailability (64%), Cmax (4.9 nM), and terminal elimination half-lives (T1/2=3.7 h) in male Wistar rats.Etamicastat (100 mg/kg; administered intraperitoneally) leads to a significant reduction of noradrenaline levels in heart with concomitant increasing in dopamine levels.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2118 mL	16.0591 mL	32.1182 mL
5 mM	0.6424 mL	3.2118 mL	6.4236 mL
10 mM	0.3212 mL	1.6059 mL	3.2118 mL
50 mM	0.0642 mL	0.3212 mL	0.6424 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

Loureiro AI, et al. Etamicastat, a new dopamine-ß-hydroxylase inhibitor, pharmacodynamics and metabolism in rat. Eur J Pharmacol. 2014 Oct 5;740:285-94.

ManuelVaz-da-Silva, et al. Cardiac safety profile of etamicastat, a novel peripheral selective dopamine-β-hydroxylase inhibitor in non-human primates, human young and elderly healthy volunteers and hypertensive patients. IJC Metabolic & Endocrine. 2015 Jun; (7): 10-24

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