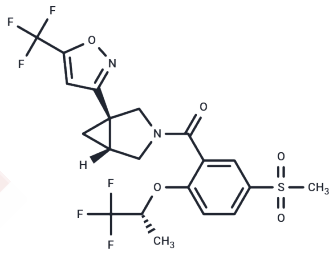
Data Sheet (Cat.No.T37089)

TargetMol

Iclepertin

Chemical Properties



CAS No. : 1421936-85-7

Formula: C20H18F6N2O5S

Molecular Weight: 512.42

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	Iclepertin (BI-425809) is an orally active and selective inhibitor of glycine transporter protein 1 (GlyT1).Iclepertin is used for the treatment of central nervous system disorders such as Alzheimer;s disease. Iclepertin is used for central nervous system disorders such as Alzheimer;s disease, schizophrenia and cognitive disorders.
Targets(IC50)	GlyT
In vitro	As an inhibitor of GlyT1, Iclepertin has IC50 values of 5.2 nM and 5.0 nM in primary rat neurons and human SK-N-MC cells, respectively[1].
In vivo	In rats, oral administration of Iclepertin (BI 425809) induces a dose-dependent increase in cerebrospinal fluid levels of glycine from 30% (0.2 mg/kg) to 78% (2 mg/kg)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9515 mL	9.7576 mL	19.5152 mL
5 mM	0.3903 mL	1.9515 mL	3.903 mL
10 mM	0.1952 mL	0.9758 mL	1.9515 mL
50 mM	0.039 mL	0.1952 mL	0.3903 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

Holger Rosenbrock, et al. Evaluation of Pharmacokinetics and Pharmacodynamics of BI 425809, a Novel GlyT1 Inhibitor: Translational Studies. Clin Transl Sci. 2018 Nov;11(6):616-623.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481