Data Sheet (Cat.No.T21409)

TargetMol

GABOB (beta-hydroxy-GABA)

Chemical Properties

CAS No. : 7013-05-0

Formula: C4H9NO3

Molecular Weight: 119.119

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	GABOB is an anticonvulsant used to treat epilepsy. GABOB is an endogenous active metabolite, it is analogue to the neurotransmitter γ-aminobutyric acid (GABA), therefore may function as a neurotransmitter.
Targets(IC50)	Others,GABA Receptor

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.3949 mL	41.9745 mL	83.949 mL
5 mM	1.679 mL	8.3949 mL	16.7898 mL
10 mM	0.8395 mL	4.1974 mL	8.3949 mL
50 mM	0.1679 mL	0.8395 mL	1.679 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

Yamamoto I, Absalom N, Carland JE, Doddareddy MR, Gavande N, Johnston GA, Hanrahan JR, Chebib M. Differentiating enantioselective actions of GABOB: a possible role for threonine 244 in the binding site of GABA(C) ρ(1) receptors. ACS Chem Neurosci. 2012 Sep 19;3(9):665-73. Epub 2012 Apr 26. PubMed PMID: 23019493; PubMed Central PMCID: PMC3447397.

Du Z, Chen Z, Chen Z, Yu X, Hu W. Dirhodium-catalyzed enantioselective C-H insertion of N-(2-benzyloxyethyl)-N-(tert-butyl)diazoacetamide and its application for the synthesis of chiral GABOB. Chirality. 2004 Oct;16(8):516-9. PubMed PMID: 15290686.

Nakao J, Hasegawa T, Hashimoto H, Noto T, Nakajima T. Formation of GABOB from 2-hydroxyputrescine and its anticonvulsant effect. Pharmacol Biochem Behav. 1991 Oct;40(2):359-66. PubMed PMID: 1805240.

Banfi S, Fonio W, Allievi E, Pinza M, Dorigotti L. Cyclic GABA-GABOB analogues. IV. Activity on learning and memory. Farmaco Sci. 1984 Jan;39(1):16-22. PubMed PMID: 6538512.

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