Data Sheet (Cat.No.T7595)

TargetMol

L-DABA

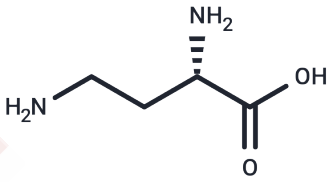
Chemical Properties

CAS No. : 1758-80-1

Formula: C4H10N2O2

Molecular Weight: 118.13

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	L-DABA (L-2,4-Diaminobutyric acid) is an inhibitor of GABA transaminase with an IC50 greater than 500 μM.
Targets(IC50)	GABA Receptor,Endogenous Metabolite
In vitro	L-2,4-Diaminobutyric acid(DABA) was a non-linear, non-competitive inhibitor of GABA transaminase activity. The DABA-induced elevation of GABA levels paralleled the inhibition of GABA transaminase activity. DABA was a more effective inhibitor of GABA transaminase in vivo than in vitro, and this inhibition probably produced the elevation of GABA levels. The neurotoxicity of DABA appears to produce a use in GABA replacement therapy[1].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	8.4653 mL	42.3263 mL	84.6525 mL
5 mM	1.6931 mL	8.4653 mL	16.9305 mL
10 mM	0.8465 mL	4.2326 mL	8.4653 mL
50 mM	0.1693 mL	0.8465 mL	1.6931 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

Beart P M , Bilal K . l-2,4-Diaminobutyric acid and the GABA system[J]. Neuroscience Letters, 1977, 5(3-4):193-198.
Ronquist G , Hugosson R , Westermark B . Antitumor activity of L-2,4 diaminobuturic acid against mouse fibrosarcoma cells in vitro and in vivo.[J]. Journal of Cancer Research & Clinical Oncology, 1980, 96(3):259-68.

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