

DL-Homocysteine-3,3,4,4-D4

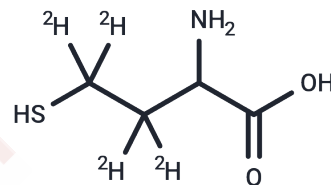
Chemical Properties

CAS No. : 416845-90-4

Formula: C₄H₉NO₂S

Molecular Weight: 139.21

Storage: Keep away from moisture, Keep away from direct sunlight
 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	DL-Homocysteine-3,3,4,4-D4 is a deuterated compound of DL-Homocysteine (T4863) (2-Amino-4-mercaptobutyric acid). DL-Homocysteine is a weak neurotoxin that affects canine uric acid production.
Targets(IC50)	Others, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 0.5 mg/mL (3.59 mM), Sonication is recommended. H ₂ O: 18 mg/mL (129.3 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	7.1834 mL	35.917 mL	71.8339 mL
5 mM	1.4367 mL	7.1834 mL	14.3668 mL
10 mM	0.7183 mL	3.5917 mL	7.1834 mL
50 mM	0.1437 mL	0.7183 mL	1.4367 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

Russak EM, Bednarczyk EM. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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