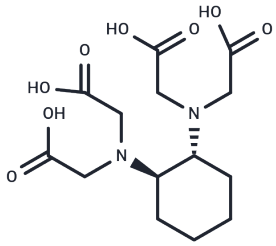
Data Sheet (Cat.No.TSH-00011)

TargetMol

Trans-1,2-Cyclohexanediaminetetraacetic acid

Chemical Properties



CAS No. : 13291-61-7

Formula: C14H22N2O8

Molecular Weight: 346.33

Storage: Keep away from direct sunlight,Keep away from moisture
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	Trans-1,2-Cyclohexanediaminetetraacetic acid (CDTA) is a cyclohexane derivative and a multidentate chelating agent with strong chelating ability towards divalent and trivalent metal ions, comparable to EDTA. It is commonly used as a metal ion chelating agent, titrant, and radiopharmaceutical ligand.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 10 mg/mL (28.87 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (2.89 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8874 mL	14.4371 mL	28.8742 mL
5 mM	0.5775 mL	2.8874 mL	5.7748 mL
10 mM	0.2887 mL	1.4437 mL	2.8874 mL
50 mM	0.0577 mL	0.2887 mL	0.5775 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

Wen Chen, et al. Uranium(VI) complexation withtrans-1,2-cyclohexanediaminetetraacetic acid in solution: thermodynamic and structural studies,Journal of Coordination Chemistry.
Zhang T, et al. Chelant extraction of heavy metals from contaminated soils using new selective EDTA derivatives. J Hazard Mater. 2013;262:464-471.