

Mal-Deferoxamine

Chemical Properties

CAS No. : 1638156-31-6

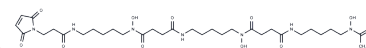
Formula: C32H53N7O11

Molecular Weight: 711.8

Store at low temperature

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	Mal-Deferoxamine is a maleimide-functionalized derivative of Deferoxamine in which the maleimide group enables highly selective and covalent conjugation with thiol-containing biomolecules, forming stable linkages suited for chemical biology and radiopharmaceutical engineering. Mal-Deferoxamine readily chelates medical radionuclides to generate radionuclide drug conjugates (RDCs), which permit targeted molecular imaging or therapeutic delivery owing to their ability to engage specific biomolecular targets with high affinity, making this compound a versatile scaffold for the development of diagnostic probes and radiotheranostic agents.
Targets(IC50)	Apoptosis,Others,Antioxidant,HIF/HIF Prolyl-Hydroxylase,Akt,HIF,Autophagy,ROS

Solubility Information

Solubility	DMSO: 65.00 mg/mL (91.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4049 mL	7.0244 mL	14.0489 mL
5 mM	0.281 mL	1.4049 mL	2.8098 mL
10 mM	0.1405 mL	0.7024 mL	1.4049 mL
50 mM	0.0281 mL	0.1405 mL	0.281 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

Summer D, et al. Cyclic versus Noncyclic Chelating Scaffold for ⁸⁹Zr-Labeled ZEGFR:2377 Affibody Bioconjugates Targeting Epidermal Growth Factor Receptor Overexpression. Mol Pharm. 2018;15(1):175-185.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

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