

DMH-25

Chemical Properties

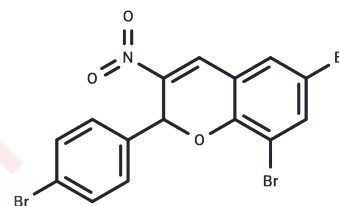
CAS No. : 1685280-21-0

Formula: C₁₅H₈Br₃NO₃

Molecular Weight: 489.94

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	DMH25 is a novel covalent and potent inhibitor of mTOR and shows in vivo antitumor activity against triple-negative breast cancer cells.
Targets(IC50)	mTOR
In vivo	In vivo, DHM25 was an efficient inhibitor of growth and metastasis of triple-negative breast cancer cells, paving the way for its clinical application in oncology. Constitutive activation of the PI3K/mTOR signaling pathway contributes to carcinogenesis and metastasis in most, if not all, breast cancers.

Solubility Information

Solubility	DMSO: 25 mg/mL (51.03 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	2.0411 mL	10.2053 mL	20.4107 mL
5 mM	0.4082 mL	2.0411 mL	4.0821 mL
10 mM	0.2041 mL	1.0205 mL	2.0411 mL
50 mM	0.0408 mL	0.2041 mL	0.4082 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

amélie, fouqué, Delalande O , Jean M , et al. A Novel Covalent mTOR Inhibitor, DHM25, Shows in Vivo Antitumor Activity against Triple-Negative Breast Cancer Cells[J]. Journal of Medicinal Chemistry, 2015:6559-73.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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