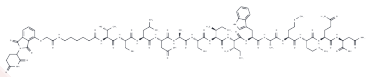
Data Sheet (Cat.No.T79789)

TargetMol

DT-6

Chemical Properties



CAS No. : 2414315-95-8

Formula: C89H130N20O29S2

Molecular Weight: 2008.23

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	DT-6, a potent TGF-β1 inhibitor, impedes M2 macrophage-induced epithelial-to-mesenchymal transition and the invasive migration of cancer cells, thereby showing potential for cancer research applications [1].
Targets(IC50)	TGF-beta/Smad
In vitro	DT-6, at concentrations ranging from 0.1-50 μM for 0-18 hours, reduced the protein expression of TGF-β1 in various cell lines, including THP-1, BV2, A549, MCF-7, U87, and HepG2 [1]. Additionally, a 50 μM dose of DT-6 over a 24-hour period decreased the secretion of TGF-β1 in M2 macrophages cultured in conditioned medium (CM) [1]. Furthermore, at 20 μM and 50 μM for 24 and 48 hours, DT-6 inhibited the ability of M2 macrophages to induce epithelial-to-mesenchymal transition (EMT) and the invasive migration of cancer cells by reducing the secretion of TGF-β1 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.498 mL	2.4898 mL	4.9795 mL
5 mM	0.0996 mL	0.498 mL	0.9959 mL
10 mM	0.0498 mL	0.249 mL	0.498 mL
50 mM	0.010 mL	0.0498 mL	0.0996 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.

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