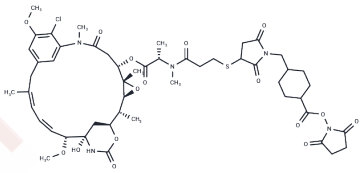
Data Sheet (Cat.No.T16899)

TargetMol

SMCC-DM1

Chemical Properties



CAS No. : 1228105-51-8

Formula: C51H66ClN5O16S

Molecular Weight: 1072.61

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	SMCC-DM1 is a drug-coupler coupler consisting of a potent microtubule disrupter, DM1, and a coupler, SMCC, for the preparation of antibody-drug couplers.
Targets(IC50)	Drug-Linker Conjugates for ADC,PROTAC Linker
In vitro	**METHODS**: The antiproliferative effects of SMCC-DM1, LDs 17 and LDs 18) on two cell lines, HCC-1954 (her2 positive) and MDA-MB-468 (her2 negative), were evaluated using Promega cell titer-glo fluorescence cell viability assay. **RESULTS** SMCC-DM1 inhibited the proliferation of HCC1954 and MDA-MB-468 cells with IC50 of 17.2 and 49.9 nM.[1]

Solubility Information

Solubility	DMSO: 75 mg/mL (69.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (1.86 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	0.9323 mL	4.6615 mL	9.3231 mL
5 mM	0.1865 mL	0.9323 mL	1.8646 mL
10 mM	0.0932 mL	0.4662 mL	0.9323 mL
50 mM	0.0186 mL	0.0932 mL	0.1865 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

Shao S,et al. Site-specific and hydrophilic ADCs through disulfide-bridged linker and branched PEG. Bioorg Med Chem Lett. 2018 May 1;28(8):1363-1370.