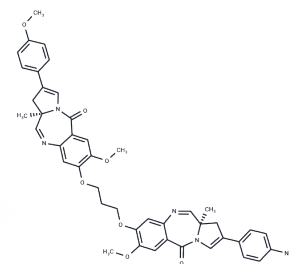


Dimethyl-SGD-1882

Chemical Properties

CAS No. :	3026416-27-0
Formula:	C44H43N5O7
Molecular Weight:	753.84
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	Dimethyl-SGD-1882 (Dimethyl-PBD dimer) is a highly efficient DNA alkylating agent used as an antibody-drug conjugate (ADC) cytotoxin, inhibiting DNA replication.
Targets(IC50)	Others,ADC Cytotoxin
In vitro	The unique structure of Pyrrolobenzodiazepine (PBD) dimer contains two alkylated imines. In addition to monoalkylated adducts, it can also form inter-chain or intra-chain DNA cross-links, therefore Compared with PBD, it has greater DNA stability. Due to the possibility of other types of DNA adducts and higher adduct stability, C8-linked PBD dimers usually have significantly higher cytotoxicity, antitumor activity, and antibacterial activity than PBD monomers And one of the reagents, SJG-136, has entered clinical trials for stage II ovarian cancer and leukemia. In addition, because the related PBD dimer has significant cytotoxicity, it is currently being used as a payload of antibody-drug conjugates (ADC).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3265 mL	6.6327 mL	13.2654 mL
5 mM	0.2653 mL	1.3265 mL	2.6531 mL
10 mM	0.1327 mL	0.6633 mL	1.3265 mL
50 mM	0.0265 mL	0.1327 mL	0.2653 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

Mantaj J, et al. From Anthramycin to Pyrrolobenzodiazepine (PBD)-Containing Antibody-Drug Conjugates (ADCs). Angew Chem Int Ed Engl. 2017 Jan 9;56(2):462-488.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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