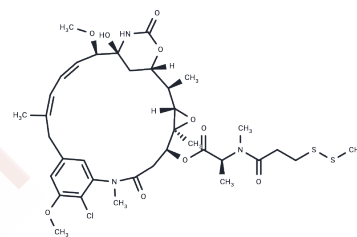


DM1-SMe

Chemical Properties

CAS No. :	138148-68-2
Formula:	C ₃₆ H ₅₀ ClN ₃ O ₁₀ S ₂
Molecular Weight:	784.38
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	DM1-SMe (DM1-SSMe) is a potent inhibitor of maytansinoid microtubular. DM1-SMe is about 3 to 10-fold more potent than the parent drug Maytansine, with IC ₅₀ s of 0.003 to 0.01 nM for DM1-SMe in a panel of human tumor cell lines.
Targets(IC ₅₀)	Microtubule Associated,ADC Cytotoxin

Solubility Information

Solubility	H ₂ O: Insoluble, DMSO: 60 mg/mL (76.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (3.19 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2749 mL	6.3745 mL	12.7489 mL
5 mM	0.255 mL	1.2749 mL	2.5498 mL
10 mM	0.1275 mL	0.6374 mL	1.2749 mL
50 mM	0.0255 mL	0.1275 mL	0.255 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

Wood AC, et al. Initial testing (Stage 1) of the antibody-maytansinoid conjugate, IMG901 (Lorvotuzumab mertansine), by the pediatric preclinical testing program. *Pediatr Blood Cancer*. 2013;60(11):1860-1867.

Chari RV. Targeted cancer therapy: conferring specificity to cytotoxic drugs. *Acc Chem Res*. 2008;41(1):98-107.

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