SPDB-DM4

Cat. No.: HY-12460

CAS No.: 1626359-62-3

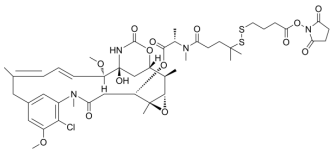
Molecular Formula: $C_{46}H_{63}ClN_4O_{14}S_2$

Molecular Weight: 995.59

Target: Drug-Linker Conjugates for ADC

Pathway: Antibody-drug Conjugate/ADC Related

Storage: -80°C, protect from light, stored under nitrogen



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 300 mg/mL (301.33 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.0044 mL	5.0221 mL	10.0443 mL
	5 mM	0.2009 mL	1.0044 mL	2.0089 mL
	10 mM	0.1004 mL	0.5022 mL	1.0044 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.51 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (2.51 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.51 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SPDB-DM4 is a agent-linker conjugate for ADC by using the maytansinebased payload (DM4, a tubulin inhibitor) via a SPDB linker, exhibiting potent anti-tumor activity.

IC_{50} & Target

Maytansinoids

REFERENCES

[1]. Puja Sapra, et al. Investigational antibody drug conjugates for solid tumors. Expert Opin Investig Drugs. 2011 Aug;20(8):1131-49.

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