PF-06380101-d_8

Cat. No.: HY-12522S

Molecular Formula: $C_{39}H_{54}D_8N_6O_6S$

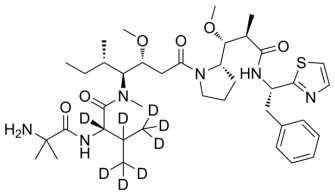
Molecular Weight: 751.06

Target: Microtubule/Tubulin; ADC Cytotoxin

Pathway: Cell Cycle/DNA Damage; Cytoskeleton; Antibody-drug Conjugate/ADC Related

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 35 mg/mL (46.60 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.3315 mL	6.6573 mL	13.3145 mL
	5 mM	0.2663 mL	1.3315 mL	2.6629 mL
	10 mM	0.1331 mL	0.6657 mL	1.3315 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: ≥ 2.33 mg/mL (3.10 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.33 mg/mL (3.10 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.33 mg/mL (3.10 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PF-06380101-d_8 is a deuterium labeled PF-06380101. PF-06380101, an Auristatin microtubule inhibitor, is a cytotoxic Dolastatin 10 analogue[1].

IC_{50} & Target

Auristatin

CUSTOMER VALIDATION

- J Chromatogr B. 2023 Jun 15, 123786.
- J Chromatogr B. 2023 Apr 9,123715.

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REFERENCES

[1]. Maderna A, et al. Discovery of cytotoxic dolastatin 10 analogues with N-terminal modifications. J Med Chem. 2014 Dec 26;57(24):10527-43.

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