

Paclitaxel-D5

Chemical Properties

CAS No. : 1129540-33-5

Formula: C47H46D5NO14

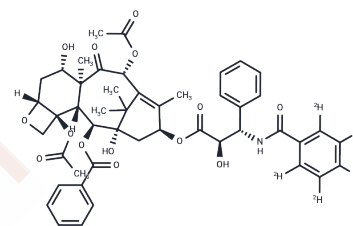
Molecular Weight: 858.94

Store at low temperature, Keep away from direct sunlight

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	Paclitaxel-D5 is the deuterated analog of Paclitaxel (TMSM-3141), a diterpenoid natural product originally isolated from Pacific yew bark. Paclitaxel-D5 maintains the parent compound's ability to stabilize microtubules and induce mitotic arrest leading to apoptosis, and it is widely used as an internal standard in analytical assays and mechanistic drug studies.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: ≥ 4 mg/mL, Sonication is recommended. Ethanol: ≥ 1.2 mg/mL, Sonication is recommended. DMF: ≥ 4 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1642 mL	5.8211 mL	11.6423 mL
5 mM	0.2328 mL	1.1642 mL	2.3285 mL
10 mM	0.1164 mL	0.5821 mL	1.1642 mL
50 mM	0.0233 mL	0.1164 mL	0.2328 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

Park SJ, et al. Taxol induces caspase-10-dependent apoptosis. J Biol Chem. 2004 Dec 3;279(49):51057-67. Epub 2004 Sep 27.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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