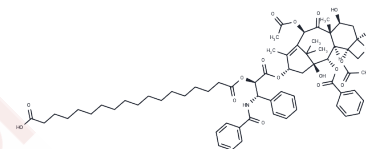


Paclitaxel octadecanedioate

Chemical Properties

CAS No. :	2089211-45-8
Formula:	C ₆₅ H ₈₃ NO ₁₇
Molecular Weight:	1150.369
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 octadecanedioate is a prodrug form of paclitaxel that is comprised of paclitaxel conjugated to 1,18-octadecanedioic acid. Unlike paclitaxel, it does not promote tubulin polymerization in vitro when used at a concentration of 10 μ M. A 5:1 mixture of paclitaxel octadecanedioate:human serum albumin (HSA) is cytotoxic to HT-1080, PANC-1, and HT-29 cells (IC ₅₀ s = 12, 2.48, and 8.62 nM, respectively). This mixture reduces tumor growth and increases survival in an HT-1080 mouse xenograft model in a dose-dependent manner.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	Ethanol: 20 mg/mL (17.39 mM),Sonication is recommended. DMF:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.22 mM),Sonication is recommended. DMF: 30 mg/mL (26.08 mM),Sonication is recommended. DMSO: 25 mg/mL (21.73 mM),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	0.8693 mL	4.3464 mL	8.6929 mL
5 mM	0.1739 mL	0.8693 mL	1.7386 mL
10 mM	0.0869 mL	0.4346 mL	0.8693 mL
50 mM	0.0174 mL	0.0869 mL	0.1739 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

Callmann, C.E., Leguyader, C.L.M., Burton, S.T., et al. Antitumor activity of 1,18-octadecanedioic acid-paclitaxel complexed with human serum albumin. *J. Am. Chem. Soc.* 141(30), 11765-11769 (2019).

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