

Minnelide

Chemical Properties

CAS No. : 1254702-87-8

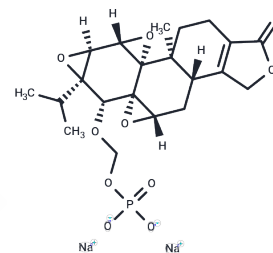
Formula: C₂₁H₂₅Na₂O₁₀P

Molecular Weight: 514.37

Store at low temperature

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	Minnelide is a water-soluble tretinoin lactone prodrug with anticancer and antitumor activity that induces apoptosis and may prevent podocyte damage. Minnelide inhibits cervical cancer growth by blocking HPV-induced changes in p53 and pRb.
Targets(IC50)	Apoptosis, Virus Protease
In vitro	Minnelide (0.100 nM, 200 nM; 48 hours) decreased cell viability in vitro in the pancreatic cancer cell lines S2-013, MIA PaCa-2, S2-VP10, and Panc-1[2].
In vivo	In the orthotopic model of pancreatic cancer with MIA PaCa-2-derived human pancreatic tumors in athymic nude mice, Minnelide (0.1-0.6 mg/kg; intraperitoneal injection; once daily or twice daily) was able to inhibit pancreatic tumor growth in vivo

Solubility Information

Solubility	DMSO: 10 mg/mL (19.44 mM), Sonication is recommended. H ₂ O: 80 mg/mL (155.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (1.94 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	1.9441 mL	9.7206 mL	19.4413 mL
5 mM	0.3888 mL	1.9441 mL	3.8883 mL
10 mM	0.1944 mL	0.9721 mL	1.9441 mL
50 mM	0.0389 mL	0.1944 mL	0.3888 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

Noel P, et al. Triptolide and Its Derivatives as Cancer Therapies. Trends Pharmacol Sci. 2019 May;40(5):327-341.
Chugh R, et al. A preclinical evaluation of Minnelide as a therapeutic agent against pancreatic cancer. Sci Transl Med. 2012 Oct 17;4(156):156ra139.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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