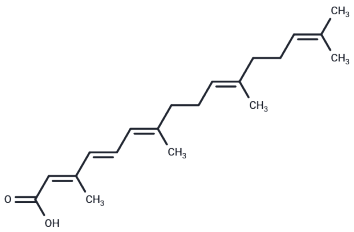
Data Sheet (Cat.No.TQ0064)

TargetMol
YOUR TARGET MOLECULES

Peretinoin

Chemical Properties



CAS No. : 81485-25-8

Formula: C20H30O2

Molecular Weight: 302.45

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Peretinoin (NIK333) is an oral acyclic retinoid with a vitamin A-like structure that targets retinoid nuclear receptors such as RXR and RAR.
Targets(IC50)	HCV Protease,Retinoid Receptor,S1P Receptor,Autophagy
In vitro	Peretinoin (10-40 μM; 12-72 hours) exhibits suppressed SPHK1 expression after 24 h treatment, even at 10 μM and more prominent after 72 h peretinoin treatment [1]. Peretinoin (5 μM; 24 hours) up-regulates the expression of LC3B-II and increases autophagy flux in mouse primary hepatocytes [2]. Peretinoin inhibits HCV RNA amplification and virus release by altering lipid metabolism with an EC50 of 9 μM [3].
Cell Research	Cell Line: Mouse primary hepatocytes (MPH) and the human HCC HepG2 cell line. Concentration: 5 μM. Incubation Time: 24 hours [2]

Solubility Information

Solubility	DMSO: 50 mg/mL (165.32 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3063 mL	16.5317 mL	33.0633 mL
5 mM	0.6613 mL	3.3063 mL	6.6127 mL
10 mM	0.3306 mL	1.6532 mL	3.3063 mL
50 mM	0.0661 mL	0.3306 mL	0.6613 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.

Reference

Honda M, et al. Peretinoin, an acyclic retinoid, improves the hepatic gene signature of chronic hepatitis C following curative therapy of hepatocellular carcinoma. BMC Cancer. 2013 Apr 15;13:191.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481