

Pseudane IX

Chemical Properties

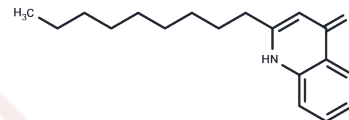
CAS No. : 55396-45-7

Formula: C₁₈H₂₅NO

Molecular Weight: 271.4

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	Pseudane IX (2-nonyl-1H-quinolin-4-one) reduces infection of Huh 7.5 cells by hepatitis C virus (HCV) with an IC ₅₀ of 1.4 µg/ml.
Targets(IC ₅₀)	HCV Protease

Solubility Information

Solubility	DMSO: 13.5 mg/mL (49.74 mM),Sonication is recommended. DMF: 30 mg/mL (110.54 mM),Sonication is recommended. Ethanol: 30 mg/mL (110.54 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	3.6846 mL	18.423 mL	36.846 mL
5 mM	0.7369 mL	3.6846 mL	7.3692 mL
10 mM	0.3685 mL	1.8423 mL	3.6846 mL
50 mM	0.0737 mL	0.3685 mL	0.7369 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

- Wahyuni, T.S., Widyawaruyanti, A., Lusida, M.I., et al. Inhibition of hepatitis C virus replication by chalepin and pseudane IX isolated from *Ruta angustifolia* leaves. *Fitoterapia*.99276-283(2014)
- Biavatti, M.W., Vieira, P.C., da Silva, F.d.G.F., et al. Biological activity of quinoline alkaloids from *Raulinoa echinata* and x-ray structure of flindersiamine. *J. Braz. Chem. Soc.*13(1)66-70(2002)
- Jin, H.Z., Lee, J.H., Lee, D., et al. Quinolone alkaloids with inhibitory activity against nuclear factor of activated T cells from the fruits of *Evodia rutaecarpa*. *Biol. Pharm. Bull.*27(6)926-928(2004)
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