

PCNA-I1

Chemical Properties

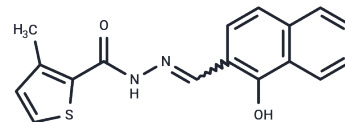
CAS No. : 444930-42-1

Formula: C₁₇H₁₄N₂O₂S

Molecular Weight: 310.37

Appearance: no data available

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



Biological Description

Description	PCNA-I1 is an inhibitor targeting PCNA chromatin association in prostate cancer.
Targets(IC50)	Others
In vitro	PCNA-I1 induced DNA damage and apoptosis in both LNCaP and PC-3 cells and enhanced DNA damage and apoptosis triggered by cisplatin. PCNA-I1 also induced autophagy in PC-3 cells. A short-term pretreatment with PCNA-I1 reduced colony formation by 50% in both cell lines.[1]
In vivo	Intravenous administrations of PCNA-I1 significantly retarded growth of LNCaP tumors of in nude mice without causing detectable effects on mouse body weight and hematology profiles[1].

Solubility Information

Solubility	DMSO: 3.1 mg/mL (10 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	3.222 mL	16.1098 mL	32.2196 mL
5 mM	0.6444 mL	3.222 mL	6.4439 mL
10 mM	0.3222 mL	1.611 mL	3.222 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Dillehay K L , Lu S , Dong Z . Antitumor Effects of a Novel Small Molecule Targeting PCNA Chromatin Association in Prostate Cancer[J]. Molecular Cancer Therapeutics, 2014, 13(12):2817-26.
Dillehay K L , Seibel W L , Zhao D ,

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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