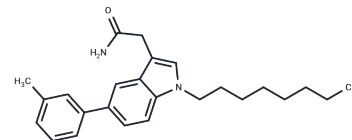


Cysmethynil

Chemical Properties

CAS No. :	851636-83-4
Formula:	C ₂₅ H ₃₂ N ₂ O
Molecular Weight:	376.53
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cysmethynil is an indole-based time-dependent inhibitor of Icmt with antitumour activity and inhibitory effects on RAS membrane-binding and EGF signalling. Cysmethynil induces cell cycle arrest in G1 phase and induces cellular autophagy, and can be used for the study of solid tumours.
Targets(IC50)	Autophagy, Ras
In vitro	Mouse embryonic fibroblasts grown in medium containing 8% serum were treated with concentrations of 15, 20, or 30 µM of Cysmethynil. The medium and drug were changed daily, and cell growth was monitored for 6 days. The results showed that treatment with Cysmethynil led to dose-dependent inhibition of growth in wild-type cells, while Icmt-/- cells were largely unaffected[1].
In vivo	Cysmethynil (20 mg/kg; intraperitoneal injection; three times per week; 2 weeks) used alone or in combination with Paclitaxel/Doxorubicin significantly inhibits tumor growth. In a xenograft mouse model, Cysmethynil sensitizes cervical cancer cells to chemotherapy drugs[3].

Solubility Information

Solubility	DMF: 3.3 mg/mL DMSO: 2 mg/mL (5.31 mM), Sonication is recommended. Ethanol: 20 mg/mL (< 1 mg/mL refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6558 mL	13.2792 mL	26.5583 mL
5 mM	0.5312 mL	2.6558 mL	5.3117 mL
10 mM	0.2656 mL	1.3279 mL	2.6558 mL
50 mM	0.0531 mL	0.2656 mL	0.5312 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

Winter-Vann AM, et al. A small-molecule inhibitor of isoprenylcysteine carboxyl methyltransferase with antitumor activity in cancer cells. Proc Natl Acad Sci U S A. 2005 Mar 22;102(12):4336-41.

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