Data Sheet (Cat.No.T13089)

TargetMol®
YOUR TARGET MOLECULES

TAS-114

Chemical Properties

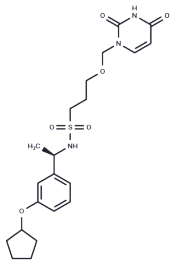
CAS No. : 1198221-21-4

Formula: C21H29N3O6S

Molecular Weight: 451.54

Appearance: no data available

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



Biological Description

Description	TAS-114 is a dual inhibitor of dUTPase/dihydropyrimidine dehydrogenase (DPD), and can improving the therapeutic efficacy of fluoropyrimidine.
Targets(IC50)	Others
In vitro	the cytotoxicity of 5-Fluorouracil (5-FU) increased by TAS-114 (1-10 μM; 72 hours) and 5-FU,2′-deoxy-5-fluorouridine (FdUrd) against various cancer cell lines in dose-dependent manner.
In vivo	In mice, the antitumor activity of 5-FU when co-administers with Capecitabine (539 mg/kg/day) increased by TAS-114 (37.5-1,200 mg/kg/day; orally; 1-14 days) .

Solubility Information

Solubility	DMSO: 100 mg/mL (221.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2146 mL	11.0732 mL	22.1464 mL
5 mM	0.4429 mL	2.2146 mL	4.4293 mL
10 mM	0.2215 mL	1.1073 mL	2.2146 mL
50 mM	0.0443 mL	0.2215 mL	0.4429 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

Yano W, et al. TAS-114, a First-in-Class Dual dUTPase/DPD Inhibitor, Demonstrates Potential to Improve Therapeutic Efficacy of Fluoropyrimidine-Based Chemotherapy. Mol Cancer Ther. 2018 Aug;17(8):1683-1693.

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