

AOH1996

Chemical Properties

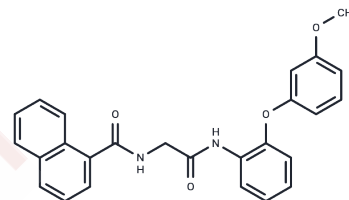
CAS No. : 2089314-64-5

Formula: C₂₆H₂₂N₂O₄

Molecular Weight: 426.46

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	AOH1996 is an orally active ligand for the replicasome component PCNA (proliferating cell nuclear antigen), targeting the transcription-replication conflict (TRC). It interferes with the interaction of PCNA with its binding proteins, leading to DNA replication stress and apoptosis. AOH1996 causes proteasome-dependent rpb1 degradation and lethal DNA damage by stabilizing the interaction between PCNA and RNA polymerase II, and acts synergistically with DNA damaging agents to inhibit tumor cell growth.
Targets(IC50)	Apoptosis,DNA

Solubility Information

Solubility	DMSO: 250 mg/mL (586.22 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	2.3449 mL	11.7244 mL	23.4489 mL
5 mM	0.469 mL	2.3449 mL	4.6898 mL
10 mM	0.2345 mL	1.1724 mL	2.3449 mL
50 mM	0.0469 mL	0.2345 mL	0.469 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

Gu L, et al. Pharmacological targeting of transcription-replication conflict leads to anti-cancer efficacy with minimal side effects in preclinical models. *Cancer Research*. 2021; 81(13_Supplement): 1269-1269.

Gu L, et al. Small molecule targeting of transcription-replication conflict for selective chemotherapy. *Cell Chem Biol*. 2023;S2451-9456(23)00221-0.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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