

13C-D3-AOH1996

Chemical Properties

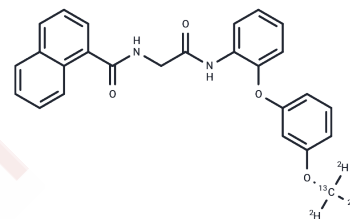
CAS No. :

Formula: 13C C25H19N2O4D3

Molecular Weight: 430.48

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

13C-D3-AOH1996 is the 13C and deuterated compound of AOH1996. 13C-AOH1996 (T77520) has a CAS number of 2089314-64-5. AOH1996 is an orally active ligand for the replicasome component PCNA (proliferating cell nuclear antigen), targeting the transcription-replication conflict (TRC).AOH1996 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.AOH1996 acts synergistically with DNA damaging agents to inhibit tumor cell growth. AOH1996 inhibits tumor cell growth by stabilizing the interaction between PCNA and RNA polymerase II, leading to proteasome-dependent rpb1 degradation and lethal DNA damage.AOH1996 acts synergistically with DNA damaging agents.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.323 mL	11.6149 mL	23.2299 mL
5 mM	0.4646 mL	2.323 mL	4.646 mL
10 mM	0.2323 mL	1.1615 mL	2.323 mL
50 mM	0.0465 mL	0.2323 mL	0.4646 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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