

AOH-D3

Chemical Properties

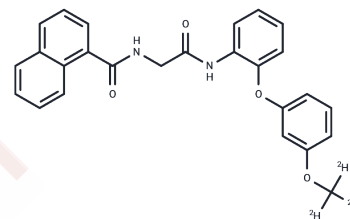
CAS No. :

Formula: C₂₆H₁₉D₃N₂O₄

Molecular Weight: 429.48

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

AOH-D3 is a deuterated compound of AOH. AOH (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	2.3284 mL	11.642 mL	23.284 mL
5 mM	0.4657 mL	2.3284 mL	4.6568 mL
10 mM	0.2328 mL	1.1642 mL	2.3284 mL
50 mM	0.0466 mL	0.2328 mL	0.4657 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481