

Product Datasheet

AOH1996

Catalog No. **BP-01969** · CAS **2089314-64-5** · Form **free base** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-09**

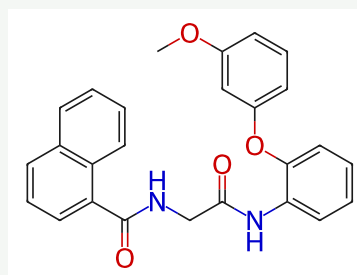
FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target PDAC; KRAS	Research area Cancer
-----------------------------	--------------------------------

Molecular formula **C₂₆H₂₂N₂O₄**

Molecular weight **426.4639**

STRUCTURE



DESCRIPTION

AOH1996 is an orally active ligand of replisome component PCNA (Proliferating cell nuclear antigen), targeting to transcription-replication conflict (TRC).

BIOLOGICAL ACTIVITY

In vitro

Seven AML cell lines and primary CD34+CD38- leukemic stem cells (LSC) were treated with AOH1996 at concentrations of 0.5–1 μM for 24 hours, and cell proliferation, apoptosis, and colony formation assays were performed.

AOH1996 dose-dependently inhibited proliferation and colony formation of AML cells and LSC, induced apoptosis, and had no significant effect on normal CD34+CD38- hematopoietic stem cells.

In vivo

Human primary AML cells were transplanted into Es1(ko)SCID mice, and 7 days later, AOH1996 (100 mg/kg) was administered by oral gavage twice daily for 3 weeks.

AOH1996 significantly reduced leukemia burden in peripheral blood and spleen, and extended median survival from 35 days to 50 days; secondary transplantation confirmed reduced LSC burden, with survival extended from 30 days to 42 days.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Gu, Long et al. "Small molecule targeting of transcription-replication conflict for selective chemotherapy." Cell chemical biology, S2451-9456(23)00221-0. 26 Jul. 2023

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

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

BiochemProbe is the catalog brand of Guangzhou Yuyuan Biotech Co., Ltd. · For research use only.

Lot CoA and SDS are separate documents.