

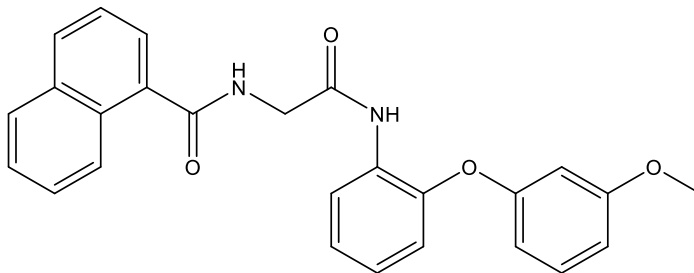
Catalog #10-4992

AOH1996

CAS 2089314-64-5

N-[2-[2-(3-Methoxyphenoxy)anilino]-2-oxoethyl]naphthalene-1-carboxamide

Lot # FBA9055



AOH1996 inhibits proliferating cell nuclear antigen (PCNA), an enzyme critical to DNA replication and repair processes.¹ It enhances the interaction between PCNA and RPB1 subunit of RNA polymerase II leading to degradation of RPB1 and collapse of DNA replication forks in transcribed chromatin regions, thus increasing transcription replication stress causing genomic instability and lethal DNA damage. AOH1996 alone or in combination with topoisomerase inhibitor CPT-11 significantly reduced tumor burden in mice with xenograft tumors (neuroblastoma, breast, or small cell lung cancers) with no side effects. Orally bioavailable.

- 1) Gu *et al.* (2023), *Small molecule targeting of transcription-replication conflict for selective chemotherapy*; Cell Chem. Biol. **30** 1235

PHYSICAL DATA

Molecular Weight:	426.47
Molecular Formula:	C ₂₆ H ₂₂ N ₂ O ₄
Purity:	>98% HPLC
	NMR: (Conforms)
Solubility:	DMSO (>50 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months. Hygroscopic solid – protect from air and moisture.

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