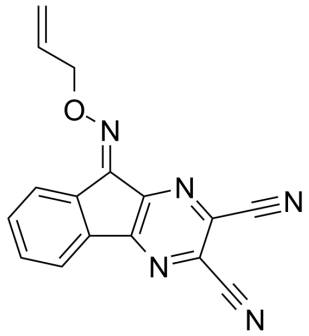
DUB-IN-3

Cat. No.:	HY-50737
CAS No.:	924296-17-3
Molecular Formula:	$C_{16}H_9N_5O$
Molecular Weight:	287.28
Target:	Deubiquitinase
Pathway:	Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (87.02 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.4810 mL	17.4049 mL	34.8098 mL
5 mM	0.6962 mL	3.4810 mL	6.9620 mL
10 mM	0.3481 mL	1.7405 mL	3.4810 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

DUB-IN-3 is a potent deubiquitinase (USP) enzyme inhibitor extracted from reference compound 22c with an IC_{50} of 0.56 μM for USP8[1].

IC_{50} & Target

IC50: 0.56 μM (USP8)[1]

CUSTOMER VALIDATION

- Cell Death Dis. 2022 Mar 31;13(3):286.
- J Med Chem. 2022 Oct 11.
- J Invest Dermatol. 2020 Jun;140(6):1154-1165.e5.
- Arch Pharm (Weinheim). 2023 May 17;e2200661.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Colombo M, et al. Synthesis and biological evaluation of 9-oxo-9H-indeno[1,2-b]pyrazine-2,3-dicarbonitrile analogues as potential inhibitors of deubiquitinating enzymes. ChemMedChem. 2010 Apr 6;5(4):552-8.

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