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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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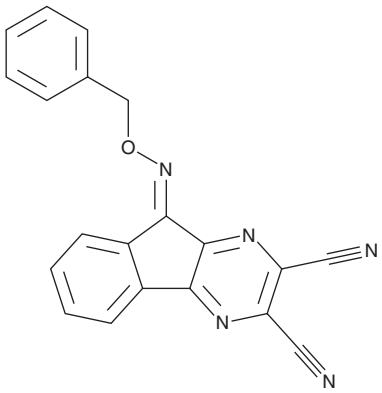
PRODUCT INFORMATION

DUB-IN-1

Item No. 41737

CAS Registry No.:	924296-18-4
Formal Name:	9-[(phenylmethoxy) imino]-9H-indeno[1,2-b] pyrazine-2,3-dicarbonitrile
Synonyms:	Deubiquitinase-IN-1, Deubiquitinase Inhibitor 1, DUB Inhibitor 1, DUBs-IN-1, DUBs Inhibitor 1
MF:	$C_{20}H_{11}N_5O$
FW:	337.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DUB-IN-1 is supplied as a solid. A stock solution may be made by dissolving the DUB-IN-1 in the solvent of choice, which should be purged with an inert gas. DUB-IN-1 is soluble (≥10 mg/ml) in DMSO.

Description

DUB-IN-1 is an inhibitor of ubiquitin-specific protease 8 (USP8; IC_{50} = 0.85 µM).[1] It is selective for USP8 over USP7 (IC_{50} = >100 µM). It inhibits the proliferation of LN-229, U87MG, and T98G glioblastoma cells when used at concentrations ranging from 200 to 800 nM.[2] DUB-IN-1 (500 and 800 nM) reduces the migration and stemness of LN-229 and T98G cells and sensitizes both to ionizing radiation. It also reduces the viability of a variety of esophageal squamous cell carcinoma (ESCC) cells (IC_{50}s = 1.58-2.14 µM) and induces apoptosis, autophagy, and cell cycle arrest at the G_2/M phase in KYSE-450 and KYSE-30 ESCC cells.[3]

References

1. Colombo, M., Vallese, S., Peretto, I., *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* **5(4),** 552-558 (2010).
2. Long, Y., Hu, Z., Yang, D., *et al.* Pharmacological inhibition of the ubiquitin-specific protease 8 effectively suppresses glioblastoma cell growth. *Open Life Sci.* **18(1),** 20220562 (2023).
3. Sha, B., Sun, Y., Zhao, S., *et al.* USP8 inhibitor-induced DNA damage activates cell cycle arrest, apoptosis, and autophagy in esophageal squamous cell carcinoma. *Cell Biol. Toxicol.* **39(5),** 2011-2032 (2023).

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