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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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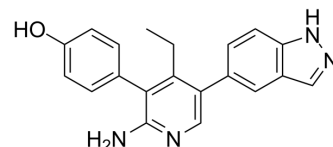
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GNE-6640

Cat. No.:	HY-112937
CAS No.:	2009273-67-8
Molecular Formula:	C ₂₀ H ₁₈ N ₄ O
Molecular Weight:	330.38
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 : 5 mg/mL (15.13 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0268 mL	15.1341 mL	30.2682 mL
	5 mM		0.6054 mL	3.0268 mL	6.0536 mL
	10 mM		0.3027 mL	1.5134 mL	3.0268 mL

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

BIOLOGICAL ACTIVITY

Description

GNE-6640 is a selective and non-covalent inhibitor of ubiquitin specific peptidase 7 (USP7), with IC₅₀ values of 0.75 μM, 0.43 μM, 20.3 μM and 0.23 μM for full length USP7, USP7 catalytic domain, full length USP43 and Ub-MDM2, respectively^{[1][2]}.

IC₅₀ & Target

IC₅₀: 0.75 μM(full length USP7), 0.43 μM(USP7 catalytic domain), 20.3 μM(full length USP43), 0.23 μM(Ub-MDM2)^[1].

In Vitro

GNE-6640 promotes endogenous MDM2 ubiquitination with Lys48 (K48)-linked polyubiquitin chains, which directs proteasomal degradation¹³. GNE-6640 targets cellular USP7, MDM2, and p53 signalling pathways. GNE-6640 decreases viability of 108 cell lines with IC₅₀ ≤ 10 μM. Combining GNE-6640 with doxorubicin or cisplatin (DNA-damaging agents), which could activate the p53 response and enhance USP7 inhibitor efficacy. GNE-6640 could induce tumor cell death. GNE-6640 enhances cytotoxicity with chemotherapeutic agents and targeted compounds, including PIM kinase inhibitors^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Death Dis. 2023 Dec 21;14(12):852.
- Cell Rep. 2022 Sep 20;40(12):111396.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Tanguturi P, et al. The role of deubiquitinating enzymes in cancer drug resistance. Cancer Chemother Pharmacol. 2020 Apr;85(4):627-639.
- [2]. Kategaya L, et al. USP7 small-molecule inhibitors interfere with ubiquitin binding. Nature. 2017 Oct 26;550(7677):534-538.

Caution: Product has not been fully validated for medical applications. For research use only.

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