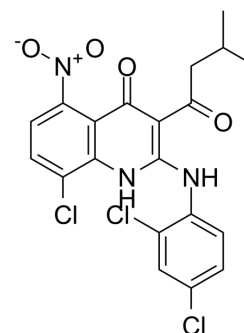


JH-RE-06

Cat. No.:	HY-126214		
CAS No.:	1361227-90-8		
Molecular Formula:	C ₂₀ H ₁₆ Cl ₃ N ₃ O ₄		
Molecular Weight:	468.72		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (10.67 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.1335 mL	10.6673 mL	21.3347 mL
	5 mM	0.4267 mL	2.1335 mL	4.2669 mL
	10 mM	0.2133 mL	1.0667 mL	2.1335 mL

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

BIOLOGICAL ACTIVITY

Description

JH-RE-06, a potent REV1-REV7 interface inhibitor (IC₅₀=0.78 μM; K_d=0.42 μM), targets REV1 that interacts with the REV7 subunit of POLζ. JH-RE-06 disrupts mutagenic translesion synthesis (TLS) by preventing recruitment of mutagenic POLζ. JH-RE-06 improves chemotherapy^{[1][2]}.

IC₅₀ & Target

IC₅₀: 0.78 μM (REV1-REV7)^[1]
K_d: 0.42 μM (REV1-REV7)^[1]

In Vitro

JH-RE-06 unexpectedly induces dimerization of the REV1 CTD at its REV7-binding surface and blocks the REV1-REV7 interaction^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

JH-RE-06 inhibits mutagenic TLS and enhances cisplatin-induced toxicity in cultured human and mouse cell lines^[1]. Co-administration of JH-RE-06 with cisplatin suppresses the growth of xenograft human melanomas in mice^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Research Square Preprint. 2023 Jun 27.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Wojtaszek JL, et al. A Small Molecule Targeting Mutagenic Translesion Synthesis Improves Chemotherapy. Cell. 2019 Jun 27;178(1):152-159.e11.
- [2]. REV1-POL ζ Inhibition Enhances Cisplatin-Induced Cytotoxicity. Cancer Discov. 2019 Aug;9(8):OF17.
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Caution: Product has not been fully validated for medical applications. For research use only.

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