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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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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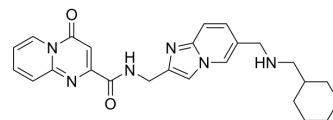
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STM2457

Cat. No.:	HY-134836		
CAS No.:	2499663-01-1		
Molecular Formula:	C ₂₅ H ₂₈ N ₆ O ₂		
Molecular Weight:	444.53		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (112.48 mM; ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2496 mL	11.2478 mL	22.4957 mL
		5 mM		0.4499 mL	2.2496 mL	4.4991 mL
		10 mM		0.2250 mL	1.1248 mL	2.2496 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 20% HP-β-CD in saline Solubility: 5 mg/mL (11.25 mM); Clear solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.68 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.68 mM); Clear solution					
	4. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.68 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	STM2457 is a first-in-class, highly potent, selective and orally active METTL3 inhibitor with an IC ₅₀ of 16.9 nM. STM2457 can be used for the research of acute myeloid leukaemia (AML) ^{[1][2]} .
In Vitro	STM2457 (Compound 72) inhibits MOLM13 cells proliferation with an IC ₅₀ of 8.699 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Biotechnol. 2024 Jan 2.
- Nat Biotechnol. 2023 Mar;41(3):355-366.
- Gastroenterology. 2022 Jun 11;S0016-5085(22)00629-1.
- Nat Commun. 2024 Feb 14;15(1):1353.
- Cancer Commun (Lond). 2022 Mar 9.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Wesley Peter Blackaby, et al. Mettl3 inhibitory compounds. WO2020201773A1.

[2]. Eliza Yankova, et al. Small molecule inhibition of METTL3 as a strategy against myeloid leukaemia. Nature. 2021 Apr 26.

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

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