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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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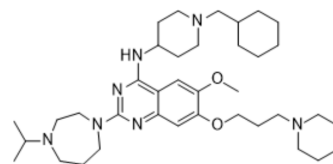
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UNC 0631

Cat. No.:	HY-13808
CAS No.:	1320288-19-4
Molecular Formula:	C ₃₇ H ₆₁ N ₇ O ₂
Molecular Weight:	635.93
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMF : 150 mg/mL (235.88 mM; Need ultrasonic)
 Ethanol : 100 mg/mL (157.25 mM; Need ultrasonic)
 DMSO : 16.67 mg/mL (26.21 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.5725 mL	7.8625 mL	15.7250 mL
	5 mM		0.3145 mL	1.5725 mL	3.1450 mL
	10 mM		0.1573 mL	0.7863 mL	1.5725 mL

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

In Vivo

- Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (3.93 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (3.93 mM); Clear solution
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (3.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.67 mg/mL (2.63 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.67 mg/mL (2.63 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UNC 0631 is a potent histone methyltransferase G9a inhibitor with an IC₅₀ of 4 nM. UNC 0631 potently reduces H3K9me2

	levels in MDA-MB-231 cells with an IC ₅₀ of 25 nM ^[1] .
IC ₅₀ & Target	G9a 4 nM (IC ₅₀)
In Vitro	UNC 0631 (Compound 7) has high cellular potency and excellent separation of functional potency versus cell toxicity in a variety of cell lines. UNC 0631 is highly potent in reducing H3K9me2 levels and has low cell toxicity. UNC 0631 reduces H3K9me2 levels with ICW IC ₅₀ values of 25 nM, 18 nM, 26 nM, 24 nM, 51 nM, 72 nM and 46 nM in MDA-MB-231, MCF7, PC3, 22RV1, HCT116 wt, HCT 116 p53 ^{-/-} and IMR90 cell lines, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- bioRxiv. 2020 Jun.
- Patent. US20180263995A1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Liu F, et al. Optimization of cellular activity of G9a inhibitors 7-aminoalkoxy-quinazolines. J Med Chem. 2011 Sep 8;54(17):6139-50.

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

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