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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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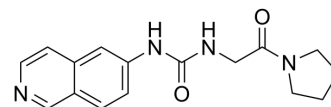
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SGC707

Cat. No.:	HY-19715
CAS No.:	1687736-54-4
Molecular Formula:	C ₁₆ H ₁₈ N ₄ O ₂
Molecular Weight:	298.34
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

DMSO : ≥ 100 mg/mL (335.19 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.3519 mL	16.7594 mL	33.5188 mL
	5 mM		0.6704 mL	3.3519 mL	6.7038 mL
	10 mM		0.3352 mL	1.6759 mL	3.3519 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3 mg/mL (10.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3 mg/mL (10.06 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3 mg/mL (10.06 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SGC707 is a potent, selective, and non-competitive PRMT3 (protein arginine methyltransferase 3) inhibitor (IC₅₀=31 nM, K_d=53 nM).

IC₅₀ & Target

PRMT3
31 nM (IC₅₀)

In Vitro

SGC707 (0-10 μ M; 6 h) binds to PRMT3 in both HEK293 and A549 cells^[1].

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

Cell Viability Assay^[1]

Cell Line:	HEK293 and A549 cells
Concentration:	0-10 μ M
Incubation Time:	6 hours
Result:	Stabilized PRMT3 in both HEK293 and A549 cells with EC ₅₀ values of 1.3 μ M and 1.6 μ M, respectively.

In Vivo

SGC707 (intraperitoneal injection; 10 mg/kg; 3 times per week; 3 w) treatment reduces hepatic steatosis and plasma triglyceride levels and induces pruritus in Western-type diet-fed LDL receptor knockout mice^[2].

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

Animal Model:	Western-type diet-fed LDL (lipoprotein) receptor knockout mice ^[2]
Dosage:	10 mg/kg
Administration:	Intraperitoneal injection; 10 mg/kg; 3 times per week; 3 weeks
Result:	Exhibited 50% lower liver triglyceride stores as well as 32% lower plasma triglyceride levels.

CUSTOMER VALIDATION

- Adv Sci (Weinh). 2023 Nov 16:e2303812.
- Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2961-2966.
- Clin Transl Med. 2022 Jan;12(1):e686.
- Cell Death Dis. 2021 Nov 9;12(11):1066.
- FASEB J. 2020 Aug;34(8):10212-10227.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. de Jong LM, et al. PRMT3 inhibitor SGC707 reduces triglyceride levels and induces pruritus in Western-type diet-fed LDL receptor knockout mice. Sci Rep. 2022 Jan 10;12(1):483.

[2]. Kaniskan HÜ, et al. A potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). Angew Chem Int Ed Engl. 2015 Apr 20;54(17):5166-70.

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

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