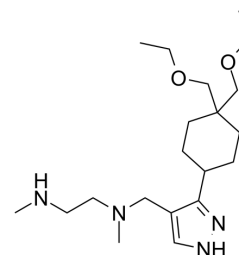


GSK3368715 dihydrochloride

Cat. No.:	HY-128717A
CAS No.:	1628925-77-8
Molecular Formula:	C ₂₀ H ₄₀ Cl ₂ N ₄ O ₂
Molecular Weight:	439.46
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	4°C, stored under nitrogen

* In solvent : -80°C, 2 years; -20°C, 1 year (stored under nitrogen)



H-Cl H-Cl

SOLVENT & SOLUBILITY

In Vitro

DMSO : 230 mg/mL (523.37 mM; Need ultrasonic)
 H₂O : 140 mg/mL (318.57 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2755 mL	11.3776 mL	22.7552 mL
	5 mM	0.4551 mL	2.2755 mL	4.5510 mL
	10 mM	0.2276 mL	1.1378 mL	2.2755 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (227.55 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

GSK3368715 dihydrochloride (EPZ019997 dihydrochloride) is an orally active, reversible, and S-adenosyl-L-methionine (SAM) uncompetitive type I protein arginine methyltransferases (PRMTs) inhibitor (IC₅₀=3.1 nM (PRMT1), 48 nM (PRMT3), 1148 nM (PRMT4), 5.7 nM (PRMT6), 1.7 nM (PRMT8)). GSK3368715 dihydrochloride (EPZ019997 dihydrochloride) produces a shift in arginine methylation states, alters exon usage, and has strong anti-cancer activity^[1].

IC₅₀ & Target

IC₅₀: 3.1 nM (PRMT1), 48 nM (PRMT3), 1148 nM (PRMT4), 5.7 nM (PRMT6), 1.7 nM (PRMT8)^[1]

	Ki ^a PP: 1.5 nM (PRMT1), 81 nM (PRMT3), 19 nM (PRMT4), 2.4 nM (PRMT6), 2 nM (PRMT8) ^[1]
In Vitro	GSK3368715 dihydrochloride (EPZ019997 dihydrochloride) shows 50% or more growth inhibition relative to DMSO-treated cells in the majority of 249 cancer cell lines, representing 12 tumor types ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	GSK3368715 dihydrochloride (EPZ019997 dihydrochloride) significantly effects on the growth of BxPC3 xenografts at all doses tested, reducing tumor growth by 78% and 97% in the 150- and 300-mg/kg dose groups, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2023 Feb 23;14(1):1011.
- Sci Adv. 2023 Sep 8;9(36):eadi2232.
- Cell Death Dis. 2021 Nov 13;12(11):1080.
- Cell Rep. 2023 Mar 29;42(4):112316.
- Front Pharmacol. 2020 Sep 8;11:569661.

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REFERENCES

[1]. Fedoriw A, et al. Anti-tumor Activity of the Type I PRMT Inhibitor, GSK3368715, Synergizes with PRMT5 Inhibition through MTAP Loss. Cancer Cell. 2019 Jul 8;36(1):100-114.e25.

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

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