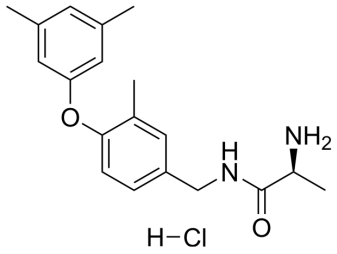
SGC2085 hydrochloride

Cat. No.:	HY-100565A
CAS No.:	1821908-49-9
Molecular Formula:	$C_{19}H_{25}ClN_2O_2$
Molecular Weight:	348.87
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SGC2085 hydrochloride is a potent and selective inhibitor of coactivator associated arginine methyltransferase 1 (CARM1) with an IC_{50} of 50 nM. SGC2085 hydrochloride also selectively inhibits PRMT6 with an IC_{50} value of 5.2 μM, but not other PRMT proteins[1].
IC_{50} & Target	PRMT6 5.2 μM (IC_{50})
In Vitro	SGC2085 hydrochloride (1 μM, 10 μM, 50 μM; 48 h) is fully selective for 21 human protein methyltransferases[1]. SGC2085 hydrochloride (10 μM; 48 h) exhibits low cell permeability and no cell activity in HEK293 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	SGC2085 is dissolved in DMSO and diluted with appropriate medium before use. HEK293 cells are grown in 12-well plates in DMEM supplemented with 10% FBS, penicillin (100 U/mL), and streptomycin (100 μg/mL). Thirty percent confluent cells are treated with inhibitors or DMSO. After 48 h, media are removed and cells are lysed in 100 μL of total lysis buffer (20 mM Tris-HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, 10 mM $MgCl_2$, 0.5% Triton X-100, 12.5 U/mL benzonase), complete EDTA-free protease inhibitor cocktail. After 3 min incubation at room temperature, SDS is added to 1% final concentration. Lysates are run on SDS-PAGE, and immunoblotting is done as outlined below to determine the levels of unmethylated and methylated BAF155 [1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Acta Pharmacol Sin. 2021 Apr 13.

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

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