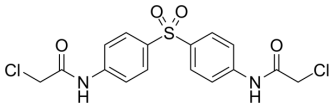
TC-E 5003

Cat. No.:	HY-107574
CAS No.:	17328-16-4
Molecular Formula:	$C_{16}H_{14}Cl_2N_2O_4S$
Molecular Weight:	401.26
Target:	Histone Methyltransferase
Pathway:	Epigenetics
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 : 125 mg/mL (311.52 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4921 mL	12.4607 mL	24.9215 mL
	5 mM	0.4984 mL	2.4921 mL	4.9843 mL
	10 mM	0.2492 mL	1.2461 mL	2.4921 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TC-E 5003 is a selective PRMT1 inhibitor with an IC_{50} of 1.5 μM against hPRMT1. TC-E 5003 has anti-inflammatory properties in TLR4 signaling[1][2].

REFERENCES

[1]. Bissinger EM, et al. Acyl derivatives of p-aminosulfonamides and dapsone as new inhibitors of the arginine methyltransferase hPRMT1. Bioorg Med Chem.

2011;19(12):3717-3731.

[2]. Kim E, et al. Protein Arginine Methyltransferase 1 (PRMT1) Selective Inhibitor, TC-E 5003, Has Anti-Inflammatory Properties in TLR4 Signaling. Int J Mol Sci. 2020;21(9):3058. Published 2020 Apr 26.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA