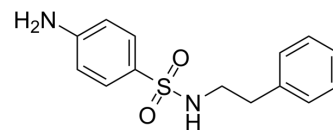


C-7280948

Cat. No.:	HY-15890		
CAS No.:	587850-67-7		
Molecular Formula:	C ₁₄ H ₁₆ N ₂ O ₂ S		
Molecular Weight:	276.35		
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 : ≥ 38 mg/mL (137.51 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		3.6186 mL	18.0930 mL	36.1860 mL
	5 mM		0.7237 mL	3.6186 mL	7.2372 mL
	10 mM		0.3619 mL	1.8093 mL	3.6186 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: ≥ 2.5 mg/mL (9.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (9.05 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

C-7280948 is a selective and potent protein methyltransferase1 (PRMT1) inhibitor with an IC₅₀ value of 12.75 μM^[1].

IC₅₀ & Target

IC₅₀: 12.75 μM (PRMT1)^[1]

In Vitro

C-7280948 is compound 6a in this article, it against hPRMT1 with an IC₅₀ value of 12.75 μM. Especially arginine methyltransferases also target non-histone protein substrates and are therefore often called protein methyltransferases (PRMTs). The subtype PRMT1 has been linked to the activation of estrogen and androgen receptors and therefore may represent a new treatment option for hormone-dependent cancer.

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

REFERENCES

[1]. Bissinger EM, et al. Acyl derivatives of p-aminosulfonamides and dapson e as new inhibitors of the arginine methyltransferase hPRMT1. Bioorg Med Chem. 2011 Jun 15;19(12):3717-3731.

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

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