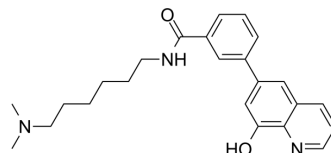


NCGC00247743

Cat. No.:	HY-112308		
CAS No.:	1435192-04-3		
Molecular Formula:	C ₂₄ H ₂₉ N ₃ O ₂		
Molecular Weight:	392		
Target:	Histone Demethylase		
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 : 62.5 mg/mL (159.44 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5510 mL	12.7551 mL	25.5102 mL
	5 mM	0.5102 mL	2.5510 mL	5.1020 mL
	10 mM	0.2551 mL	1.2755 mL	2.5510 mL

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

BIOLOGICAL ACTIVITY

Description

NCGC00247743 is a histone lysine demethylase KDM4 inhibitor.

IC₅₀ & Target

KDM4^[1]

In Vitro

Based on structure-activity relationship studies, a series of chemical compounds are derived from 8-hydroxyquinoline (8HQ) and shown to be active inhibitors of KDM4E and KDM4A. The effect of these compounds is tested on the growth of LNCaP cells and NCGC00247751 (A1), NCGC00244536 (B3), and NCGC00247743 (I9) are selected. These inhibitors inhibit LNCaP cell growth with IC₅₀s in the μM range. These compounds also inhibit the enzymatic activity of other KDM4 isoforms although, interestingly, the potency and efficacy of B3 and A1 for KDM4A, 4C, and 4D are lower compared to that of NCGC00247743 (I9), suggesting a potential selectivity of the inhibitors for different isoforms of KDM4^[1].

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

REFERENCES

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