

# NCGC00247743

## Catalog No: tcsc0044848



### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg



### Specifications

**CAS No:**

1435192-04-3

**Formula:**

$C_{24}H_{29}N_3O_2$

**Pathway:**

Epigenetics

**Target:**

Histone Demethylase

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

391.51

### Product Description

NCGC00247743 is a histone lysine demethylase **KDM4** inhibitor.

IC50 & Target: KDM4<sup>[1]</sup>

***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 IC<sub>50</sub>s in the  $\mu$ M 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<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!