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**Product Data Sheet**

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Product Name: NCGC00247743

Cat. No.: GC32896

**Chemical Properties**

Cas. No. 1435192-04-3

SMILES OC1=C(N=CC=C2)C2=CC(C3=CC(C(NCCCCCN(C)C)=O)=CC=C3)=C1Formula C<sub>24</sub>H<sub>29</sub>N<sub>3</sub>O<sub>2</sub> M.Wt 391.51

Solubility DMSO : 62.5 mg/mL (159.64 mM); Water : &lt; 0.1 mg/mL (insoluble) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

NCGC00247743 is a histone lysine demethylase KDM4 inhibitor.

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 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].

[1]. Duan L, et al. KDM4/JMJD2 Histone Demethylase Inhibitors Block Prostate Tumor Growth by Suppressing the Expression of AR and BMYB-Regulated Genes. Chem Biol. 2015 Sep 17;22(9):1185-96.

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

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