Web: www.taiclone.com
Tel: +886-2-2735-9682
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GSK-J1

Catalog No: tcsc3322

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
1373422-53-7

Formula:
$C_{22}H_{23}N_5O_2$

Pathway:
Epigenetics

Target:
Histone Demethylase

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 33 mg/mL (84.73 mM)

Observed Molecular Weight:
389.45

Product Description

GSK-J1 is a potent inhibitor of **H3K27me3/me2-demethylases JMJD3/KDM6B** and **UTX/KDM6A**, with **IC_{50}** of 60 nM towards KDM6B.

IC50 & Target: IC50: 60 nM (KDM6B)[2]

In Vitro: GSK-J1 is selective for H3K27 demethylases of the KDM6 subfamily and specifically binds to endogenous JMJD3. GSK-J1

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inhibits TNF-α production by human primary macrophages in an H3K27-dependent manner[1]. GSK-J1 inhibits the demethylase activity of KDM5C with 8.5-fold increased potency compared with that of KDM5B at 1 mM α-ketoglutarate, with IC_{50} of 11 μM and 94 μM, respectively[3].