

GSK-J1 (lithium salt)

Catalog No: tcsc3328



Available Sizes

Size: 10mg

Size: 50mg



Specifications

Formula:

$C_{22}H_{22}LiN_5O_2$

Pathway:

Epigenetics

Target:

Histone Demethylase

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

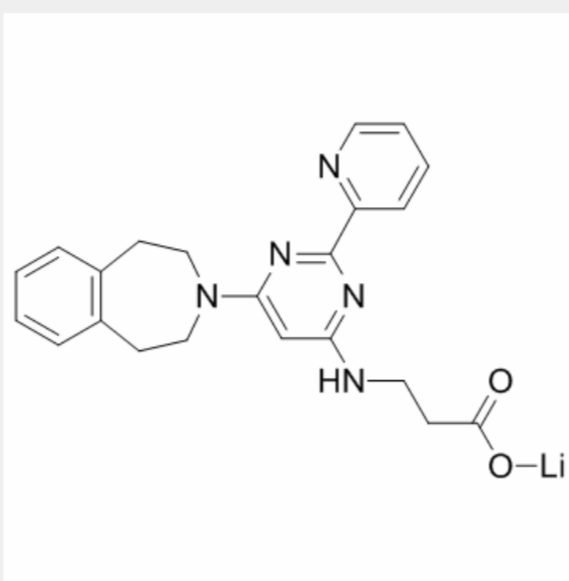
395.38

Product Description

GSK-J1 lithium salt is a potent inhibitor of **H3K27me3/me2-demethylases JMJD3/KDM6B** and **UTX/KDM6A**, with **IC₅₀** 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 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 IC₅₀ of 11 μ M and 94 μ M, respectively^[3].



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