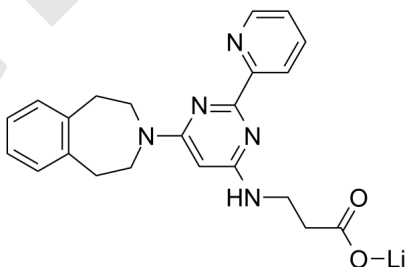


Certificate of Analysis

Catalog Number	BP13903
Product Name	GSK-J1 lithium salt

Physical and Chemical Properties

Chemical Formula	C ₂₂ H ₂₂ LiN ₅ O ₂
Molecular Weight	395.38
Solubility	
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	GSK-J1 lithium salt is a potent inhibitor of me ² -demethylases JMJD3/H3K27me ₃ /KDM6B and UTX/KDM6A (IC ₅₀ : 60 nM towards KDM6B).
Targets&IC ₅₀	KDM6B:60 nM

In vitro	GSK-J1 inhibits TNF- α production by human primary macrophages in an H3K27-dependent manner. 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. GSK-J1 is selective for H3K27 demethylases of the KDM6 subfamily and specifically binds to endogenous JMJD3.
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Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

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