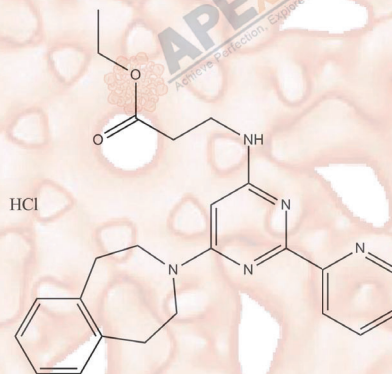


# Product Data Sheet

## GSK J4 HCl

<b>Cat. No.:</b>	A4190
<b>CAS No.:</b>	1797983-09-5
<b>Formula:</b>	C <sub>24</sub> H <sub>27</sub> N <sub>5</sub> O <sub>2</sub> ·HCl
<b>M.Wt:</b>	453.96
<b>Synonyms:</b>	
<b>Target:</b>	Chromatin/Epigenetics
<b>Pathway:</b>	Histone Demethylases
<b>Storage:</b>	Store at -20° C



## Solvent & Solubility

≥ 13.9 mg/mL in DMSO, insoluble in EtOH, insoluble in H<sub>2</sub>O

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		<b>1 mM</b>	2.2028 mL	11.0142 mL	22.0284 mL
		<b>5 mM</b>	0.4406 mL	2.2028 mL	4.4057 mL
		<b>10 mM</b>	0.2203 mL	1.1014 mL	2.2028 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

**Shortsummary** Inhibitor of H3K27 demethylase JMJD3, potent and cell-permeable

**IC<sub>50</sub> & Target**

### Cell Viability Assay

In Vitro	<b>Cell Line:</b>	Human primary macrophages
	<b>Preparation method:</b>	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.
	<b>Reacting conditions:</b>	1, 3, 10 and 31 μM; 6 hrs
	<b>Applications:</b>	GSK J4 inhibited TNF-α protein production in a dose-dependent manner, with

an IC50 value of 9  $\mu$ M.

#### Animal experiment

Animal models: Mice harboring subcutaneous SF8628 K27M xenografts

Dosage form: 100 mg/kg/day; i.p.; for 10 days

Applications: GSK J4 showed significant growth-inhibitory activity against SF8628 subcutaneous tumors.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

In Vivo

## Product Citations

1. Li N, Yang L, et al. "BET bromodomain inhibitor JQ1 preferentially suppresses EBV-positive nasopharyngeal carcinoma cells partially through repressing c-Myc." Cell Death Dis. 2018 Jul 9;9(7):761.PMID:29988031

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## References

[1]. Kruidenier L, Chung CW, Cheng Z, Liddle J, Che K, Joberty G, Bantscheff M, Bountra C, Bridges A, Diallo H, Eberhard D, Hutchinson S, Jones E, Katso R, Leveridge M, Mander PK, Mosley J, Ramirez-Molina C, Rowland P, Schofield CJ, Sheppard RJ, Smith JE, Swales C, Tanner R, Thomas P, Tumber A, Drewes G, Oppermann U, Patel DJ, Lee K, Wilson DM. A selective jumonji H3K27 demethylase inhibitor modulates the proinflammatory macrophage response. Nature. 2012 Aug 16;488(7411):404-8.

[2]. Hashizume R, Andor N, Ihara Y, Lerner R, Gan H, Chen X, Fang D, Huang X, Tom MW, Ngo V, Solomon D, Mueller S, Paris PL, Zhang Z, Petritsch C, Gupta N, Waldman TA, James CD. Pharmacologic inhibition of histone demethylation as a therapy for pediatric brainstem glioma. Nat Med. 2014 Dec;20(12):1394-6.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



# APEX BIO Technology

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