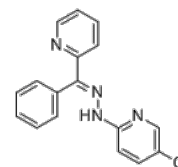


Product Name : JIB-04
Cat. No. : PC-72834
CAS No. : 199596-05-9
Molecular Formula : C₁₇H₁₃ClN₄
Molecular Weight : 308.769
Target : Histone Demethylase
Solubility : 10 mM in DMSO



Biological Activity

JIB-04 is a pan-**Jumonji histone demethylase** inhibitor (IC₅₀=230-1100 nM) with epigenetic activity, also potently inhibits SARS-CoV-2 replication in Vero E6 cells with EC₅₀ of 695 nM.

JARID1A (KDM5A) is most sensitive to JIB-04 (IC₅₀=230 nM), shows no inhibition of the mechanistically related TET enzymes.

JIB-04 specifically inhibits the activity of the Jumonji family of histone demethylases in vitro, in cancer cells, and in tumours in vivo.

JIB-04 showed in vitro antiviral activity in multiple cell types, including primary human bronchial epithelial cells, against several DNA and RNA viruses, including porcine coronavirus transmissible gastroenteritis virus.

References

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Lei Wang, et al. *Nat Commun*. 2013;4:2035.

J Easmon, et al. *J Med Chem*. 1997 Dec 19;40(26):4420-5.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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