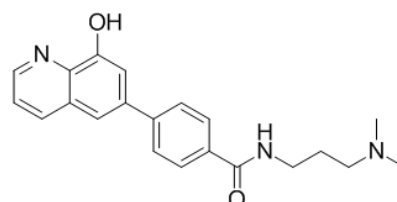


Product Name : ML324
Cat. No. : PC-43163
CAS No. : 1222800-79-4
Molecular Formula : C₂₁H₂₃N₃O₂
Molecular Weight : 349.4262
Target : Histone Demethylase
Solubility : DMSO: ≥ 33 mg/mL



Biological Activity

ML324 is a potent, selective **JMJD2 demethylase (KDM4)** inhibitor with IC₅₀ of 920 nM for JMJD2E, shows no activity against LSD1 (>100-fold selectivity).

ML324 causes depression-like phenotype even in absence of stress exposure, which is associated with an increase in transcriptionally repressive epigenetic marks H3K9me₂/me₃ in nucleus accumbens (NAc).

ML324 blocks TNF- α -mediated neutrophil adhesion, reduces TNF- α -induced ICAM1 protein expression in cerebral microvessels.

References

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Choi JY, et al. *Sci Rep*. 2017 Mar 22;7:45005.

Ishiguro K, et al. *Clin Immunol*. 2017 Jul;180:120-127.

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

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