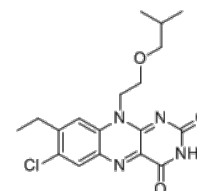


Product Name : JG-2016
Cat. No. : PC-49533
CAS No. : 2887480-87-5
Molecular Formula : C₁₈H₂₁ClN₄O₃
Molecular Weight : 376.841
Target : Histone Acetyltransferase (HAT)
Solubility : 10 mM in DMSO



1. Gaddameedi JD, et al. *J Med Chem*. 2023 Apr 27;66(8):5774-5801.

Biological Activity

JG-2016 is a small molecule inhibitor of **histone acetyltransferase 1 (HAT1)** with IC₅₀ of 14.8 μM in the HAT1 acetylation assays.

JG-2016 binds HAT1 at the cofactor-binding site and does not compete with the histone substrate.

JG-2016 robustly inhibited cell growth (EC₅₀=10.4 μM) in triple-negative breast cancer cell line HCC1806, inhibits A549 (lung cancer) with EC₅₀ of 1.9 μM.

JG-2016 (50-100 mg/kg, i.p.) impairs HAT1 dependent acetylation and suppresses tumor growth with minimal toxicity in vivo.

References

