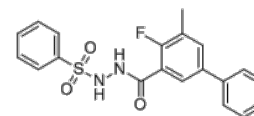


Product Name : WM-8014
Cat. No. : PC-35579
CAS No. : 2055397-18-5
Molecular Formula : C₂₀H₁₇FN₂O₃S
Molecular Weight : 384.425
Target : Histone Acetyltransferase (HAT)
Solubility :



Biological Activity

WM-8014 (WM8014) is a highly potent, selective inhibitor of **lysine acetyltransferase KAT6A** with K_d of 5 nM and IC₅₀ of 8 nM; WM-8014 is reversible competitor of acetyl coenzyme A and inhibits MYST-catalysed histone acetylation, also inhibits closely related KAT6B (IC₅₀=28 nM), displays >10-fold selectivity over KAT7 and KAT5 (IC₅₀=342 nM and 224 nM), shows no inhibition against KAT8, KAT2A, KAT2B, KAT3A and KAT3B; induces cell cycle exit and cellular senescence without causing DNA damage, reduces acetylation of specific histone lysine residues and changes in gene expression that resemble the genetic loss of KAT6A; selectively reduces liver volume in a zebrafish model of KRASG12V-driven hepatocellular overproliferation, robustly upregulate the cell cycle regulators Cdkn2a and Cdkn1a in hepatocytes.

References

Baell JB, et al. *Nature*. 2018 Aug;560(7717):253-257.

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

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