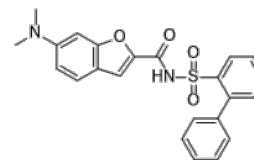


Product Name : BAY-184
Cat. No. : PC-23297
CAS No. : 2520347-03-7
Molecular Formula : C₂₃H₂₀N₂O₄S
Molecular Weight : 420.48
Target : Histone Acetyltransferase (HAT)
Solubility : 10 mM in DMSO



CAS: 2520347-03-7

Biological Activity

BAY-184 is a potent, selective and in vivo-active **KAT6A/B** inhibitor with IC₅₀ of 71/83 nM respectively.

BAY-184 displays an overall good selectivity, with high selectivity against the close members of the MYST family, with only a residual low micromolar activity for KAT7 (11-fold), and with no activity against the more distantly related histone acetyltransferase p300 (IC₅₀ > 10 μM).

BAY-184 also shows high selectivity against a full kinase panel at a concentration of 10 μM (366 kinases) at Eurofins.

BAY-184 (1 μM) elicited a swift decline in H3K23ac levels in ZR-75-1 cells, shows IC₅₀ of 670 nM for H3K23 acetylation in HTRF assays, and IC₅₀ of 168 nM in ER target gene reporter assay.

BAY-184 inhibits cell growth of ZR-75-1 breast cancer cells with IC₅₀ of 130 nM, shows IC₅₀ values of <1 μM against ER-positive breast cancer subtypes.

BAY-184 (50-150 mg/kg, po, twice daily (2 qd)) induced a dose-dependent inhibition of tumor growth in ZR-75-1 xenografts.

References

Ter Laak A, et al. *J Med Chem*. 2024 Oct 25. doi: 10.1021/acs.jmedchem.4c01709.

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

E-mail: tech@probechem.com