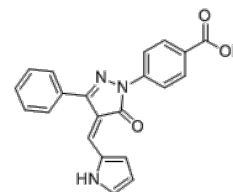


**Product Name** : MC4171  
**Cat. No.** : PC-20777  
**CAS No.** :  
**Molecular Formula** : C<sub>21</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 357.37  
**Target** : Histone Acetyltransferase (HAT)  
**Solubility** : 10 mM in DMSO



## Biological Activity

MC4171 (KAT8 inhibitor 34) is a first-in-class, selective and reversible lysine acetyltransferase **KAT8** inhibitor with IC<sub>50</sub> of 8.1 μM and SPR K<sub>d</sub> of 2.04 μM.

MC4171 displays high selectivity against a panel of KATs (KAT2A and the MYST family members KAT5, KAT6A, KAT6B, and KAT7), KDACs (KDAC1–3, 6, and 8).

MC4171 exhibits target engagement as stabilizing KAT8 against thermal-induced aggregation in cells.

MC4171 (50 μM) reduces more than 50% reduction of H4K16Ac in HT29 CRC cell line, with no influence on KAT8 expression levels or on H3K27 acetylation (acetylated by KAT3A/B).

MC4171 displayed antiproliferative activity in A549 cells (65% cell proliferation inhibition at 50 μM; 80% cell proliferation inhibition at 100 μM).

MC4171 is cancer-selective, exhibits mid-micromolar antiproliferative activity in different cancer cell lines, including NSCLC and AML, without impacting the viability of nontransformed cells.

MC4171 is valuable chemical tool for elucidating KAT8 biology.

## References

Francesco Fiorentino, et al. Journal of Medicinal Chemistry. May 8, 2023

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

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