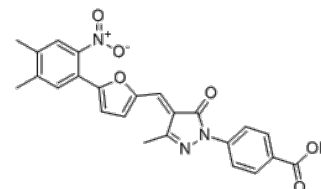


Product Name : C646
Cat. No. : PC-20778
CAS No. : 328968-36-1
Molecular Formula : C₂₄H₁₉N₃O₆
Molecular Weight : 445.42
Target : Histone Acetyltransferase (HAT)
Solubility : 10 mM in DMSO



CAS: 328968-36-1

Biological Activity

C646 is a selective, competitive histone acetyltransferase (HAT) **p300** inhibitor with K_i of 400 nM, less potent for other acetyltransferases.

C646 blocks dynamic acetylation of H3K4me3 globally in mouse and fly cells, and locally across the promoter and start-site of inducible genes in the mouse, thereby disrupting RNA polymerase II association and the activation of genes.

C646 increases caspase-dependent apoptosis involving both extrinsic and intrinsic cell death pathways in androgen-dependent and castration-resistant prostate cancer cells.

C646 inhibits the growth of human melanoma and other tumor cells and promotes cellular senescence.

References

- Bowers EM, et al. *Chem Biol.* 2010 May 28;17(5):471-82.
 Yan G, et al. *J Invest Dermatol.* 2013 Oct;133(10):2444-2452.
 Santer FR, et al. *Mol Cancer Ther.* 2011 Sep;10(9):1644-55.
 Crump NT, et al. *Proc Natl Acad Sci U S A.* 2011 May 10;108(19):7814-9.

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

E-mail: tech@probechem.com