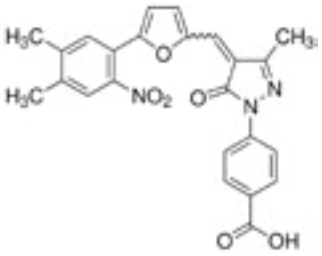
# C-646

Catalog Number P014-5MG

Catalog Number P014-25MG



## FEATURES

- p300/CBP HAT inhibitor
- Inhibits melanoma cancer cell growth
- Less than 10% inhibition of other HATs

## INTRODUCTION

A reversible, cell-permeable pyrazolone p300/CBP HAT inhibitor (Ki = 400 nM), which competes with acetyl-CoA for the p300 Lys-CoA binding pocket. Demonstrates 86% inhibition against p300 at 10 nM. Less than 10% inhibition against serotonin N-acetyltransferase, PCAF, GCN5, Rtt109, Sas, and MOZ HATs in a chemical screening assay. Treatment of C3H 10T1/2 mouse fibroblasts at 25 µM results in an inhibitory effect against basal and TSA-inducible acetylation of histones H3 and H4. Shown to inhibit human cell growth in melanoma and non-small-cell-lung cancer cell lines at 10 µM with similar or higher potency than peptide-based bisubstrate p300/CBP HAT inhibitor Lys-CoA-Tat at 25 µM.

| | |
|---|---|
| **FORM:** | Orange powder |
| **MOLECULAR WEIGHT:** | 445.4 |
| **STORAGE:** | 4°C, desiccated |
| **FORMULA:** | $C_{24}H_{19}N_3O_6$ |
| **CAS NUMBER:** | 328968-36-1 |
| **OTHER NAMES:** | 4-[4-[[5-(4,5-Dimethyl-2-nitrophenyl)-2-furanyl]methylene]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzoic acid |
| **USES:** | Soluble to 10 mg/mL in DMSO |

## REFERENCES:


Bowers EM, et al. Virtual ligand screening of the p300/CBP histone acetyltransferase: identification of a selective small molecule inhibitor. Chem Biol. 17:5, 471-82. (2010).

Ott M, Verdin E., HAT trick: p300, small molecule, inhibitor. Chem Biol. 17:5, 417-8. (2010).

Mali P, et al. Butyrate greatly enhances derivation of human induced pluripotent stem cells by promoting epigenetic remodeling and the expression of pluripotency-associated genes. Stem Cells. 28:4, 713-20. (2010).


**For Research Use Only**


info@gentaur.com