

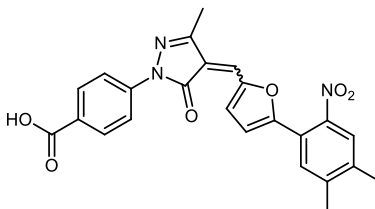
**Catalog # 10-1306**

**C-646**

CAS# 328968-36-1

4-[4-[[5-(4,5-Dimethyl-2-nitrophenyl)-2-furanyl]methylene]-4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-1-yl]benzoic acid

Lot # X104138



Potent and selective inhibitor of the histone acetyl transferase p300/CBP ( $K_i=400$  nM ). Induces apoptosis in prostate cancer cells. Enhances fear extinction memory and synaptic plasticity in mice. Promotes tau deacetylation reducing levels of pathogenic p-tau. Cell permeable.

- 1) Bowers *et al.* (2010), *Virtual ligand screening of the p300/CBP histone acetyltransferase: identification of a selective small molecule inhibitor*, *Chem. Biol.*, **17** 471
- 2) Santer *et al.* (2011), *Inhibition of the acetyltransferases p300 and CBP reveals a targetable function for p300 in the survival and invasion pathways of prostate cancer cell lines*; *Mol. Cancer Ther.*, **10** 1644
- 3) Marek *et al.* (2011), *Paradoxical enhancement of fear extinction memory and synaptic plasticity by inhibition of the histone acetyltransferase p300*; *J. Neurosci.*, **31** 7486
- 4) Min *et al.* (2010), *Acetylation of tau inhibits its degradation and contributes to tauopathy*; *Neuron*, **67** 953

**PHYSICAL DATA**

Molecular Weight: 445.44

Molecular Formula:  $C_{24}H_{19}N_3O_6$

Purity: 98% by TLC

NMR: (Conforms)

Solubility: DMSO (up to 10 mg/ml)

Physical Description: Orange solid

Storage and Stability: Store as supplied at  $-20^{\circ}C$  for up to 2 year from the date of purchase. Solutions in DMSO may be stored at  $-20^{\circ}C$  for up to 2 months.

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