

Certificate of Analysis

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Product Name: C 646

Catalog No.: 4200

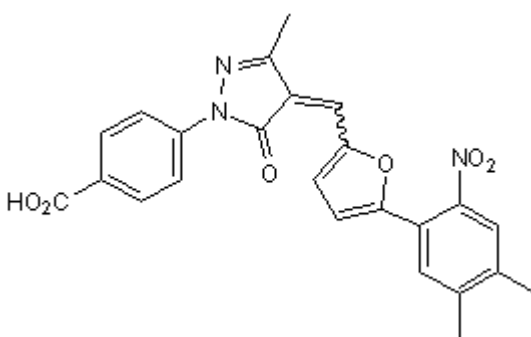
Batch No.: 1

CAS Number: 328968-36-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₉N₃O₆
Batch Molecular Weight: 445.42
Physical Appearance: Red solid
Solubility: DMSO to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.72	4.3	9.43
Found	62.57	4.17	9.23

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective p300/CREB-binding protein (CBP) inhibitor ($K_i = 400$ nM). Selective for p300 over six other histone acetyltransferases (HATs). Suppresses histone H3 and H4 acetylation in mouse fibroblast cell lines.

Physical and Chemical Properties:

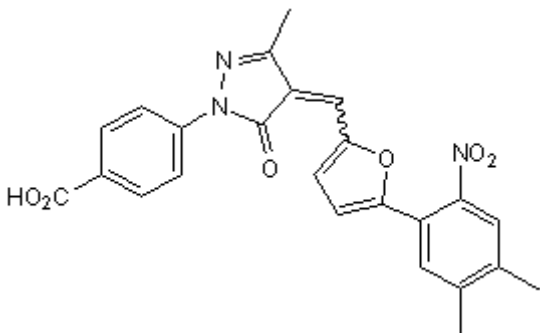
Batch Molecular Formula: $C_{24}H_{19}N_3O_6$

Batch Molecular Weight: 445.42

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 25 mM

This compound is a mixture of Z:E isomers (~ 80:20)

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Crump *et al* (2011) Dynamic acetylation of all lysine-4 trimethylated histone H₃ is evolutionarily conserved and mediated by p300/CBP. *Proc.Natl.Acad.Sci. USA* **108** 7814.

Bowers *et al* (2010) Virtual ligand screening of the p300/CBP histone acetyltransferase: identification of a selective small molecule inhibitor. *Chem.Biol.* **17** 471. PMID: 20534345.

Mali *et al* (2010) Butyrate greatly enhances derivation of human induced pluripotent stem cells by promoting epigenetic remodeling and the expression of pluripotency-associated genes. *Stem Cells* **28** 713. PMID: 20201064.

Ott and Verdi (2010) HAT trick: p300, small molecule, inhibitor. *Chem.Biol.* **17** 417. PMID: 20534339.

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