

Certificate of Analysis

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Product Name: L002

Catalog No.: 5045

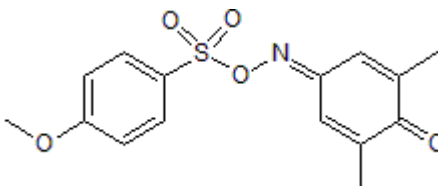
Batch No.: 1

CAS Number: 321695-57-2

IUPAC Name: 4-[O-[(4-Methoxyphenyl)sulfonyl]oxime]-2,6-dimethyl-2,5-cyclohexadiene-1,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₅NO₅S
Batch Molecular Weight: 321.35
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

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Product Information

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CAS Number: 321695-57-2

IUPAC Name: 4-[O-[(4-Methoxyphenyl)sulfonyl]oxime]-2,6-dimethyl-2,5-cyclohexadiene-1,4-dione

Description:

p300 inhibitor (IC_{50} = 1.98 μ M). Inhibits histone and p53 acetylation, and suppresses STAT3 activation in cell-based assays. Also suppresses tumor growth in a mouse MDA-MB-468 xenograft model.

Physical and Chemical Properties:

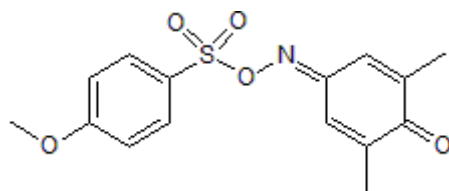
Batch Molecular Formula: $C_{15}H_{15}NO_5S$

Batch Molecular Weight: 321.35

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 mM with gentle warming

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:

Yang et al (2013) Small-molecule inhibitors of acetyltransferase p300 identified by high-throughput screening are potent anticancer agents. *Mol.Cancer Ther.* **12** 610. PMID: 23625935.

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