

## Certificate of Analysis

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**Product Name:** NSC 632839 hydrochloride

**Catalog No.:** 2647

**Batch No.:** 1

**CAS Number:** 157654-67-6

**IUPAC Name:** 3,5-Bis[(4-methylphenyl)methylene]-4-piperidone hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>NO.HCl

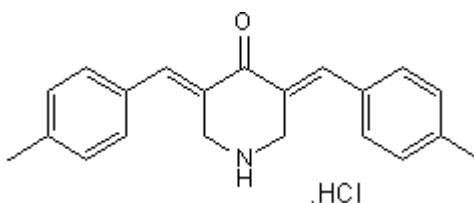
**Batch Molecular Weight:** 339.86

**Physical Appearance:** Bright yellow solid

**Solubility:** DMSO to 25 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.67 (Dichloromethane:Methanol [9:1])

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical	74.22	6.52	4.12
Found	73.96	6.47	4.1

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## Product Information

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### Description:

Inhibitor of ubiquitin isopeptidase activity that displays no effect on the proteolytic activity of the proteasome. Induces apoptosis via a Bcl-2-dependent and apoptosome-independent pathway of caspase activation (IC<sub>50</sub> values are 15.65 and 16.23 µM in E1A and E1A/C9CN cells respectively).

### Physical and Chemical Properties:

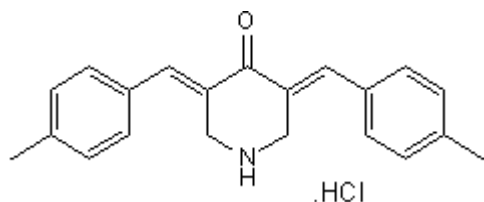
Batch Molecular Formula: C<sub>21</sub>H<sub>21</sub>NO.HCl

Batch Molecular Weight: 339.86

Physical Appearance: Bright yellow solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Store at +4°C

### Solubility & Usage Info:

DMSO to 25 mM

### 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:

**Aleo et al** (2006) Identification of new compounds that trigger apoptosome-independent caspase activation and apoptosis. *Cancer Res.* **66** 9235. PMID: 16982768.

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