

Product Name: G5

Catalog No.: 6776

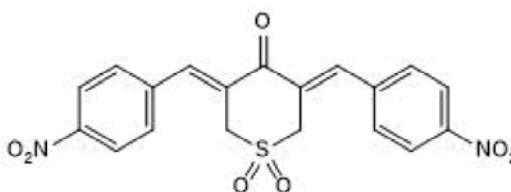
Batch No.: 1

CAS Number: 108477-18-5

IUPAC Name: Tetrahydro-3,5-bis[(4-nitrophenyl)methylene]-4*H*-thiopyran-4-one-1,1-dioxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄N₂O₇S
Batch Molecular Weight: 414.39
Physical Appearance: Yellow solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 55.07 | 3.41 | 6.76 |
| Found | 54.81 | 3.36 | 6.87 |

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

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Description:

Ubiquitin isopeptidase inhibitor; activates caspases and apoptosis in an apoptosome-independent pathway.

Physical and Chemical Properties:

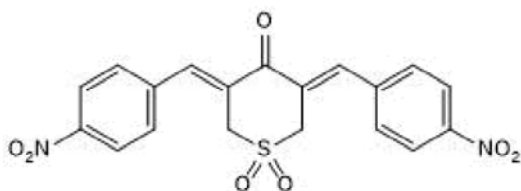
Batch Molecular Formula: C₁₉H₁₄N₂O₇S

Batch Molecular Weight: 414.39

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°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 50 mM

CAUTION - This product is unstable in DMSO. Therefore, we recommend that solutions should be prepared just before use.

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:

Hafner-Bratkovic et al (2018) NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. *Nat. Commun.* **9** 5182. PMID: 30518920.

Foti et al (2009) Characterization of caspase-dependent and caspase-independent deaths in glioblastoma cells treated with inhibitors of the ubiquitin-proteasome system. *Mol. Cancer Ther.* **8** 3140. PMID: 19887551.

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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