

Certificate of Analysis

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Product Name: CCF 642

Catalog No.: 6063

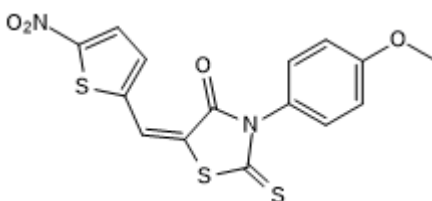
Batch No.: 1

CAS Number: 346640-08-2

IUPAC Name: 3-(4-Methoxyphenyl)-5-[(5-nitro-2-thienyl)methylene]-2-thioxo-4-thiazolidinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₀N₂O₄S₃
Batch Molecular Weight: 378.45
Physical Appearance: Brown solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.61	2.66	7.4
Found	47.36	2.75	7.36

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

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Description:

Protein disulfide isomerase (PDI) inhibitor. Induces acute ER stress and apoptosis in multiple myeloma cells in vitro (submicromolar activity). Prolongs survival of C57BL/KaLwRij mice engrafted with 5TGM1-luc myeloma. Also a bone marrow-sparing compound.

Physical and Chemical Properties:

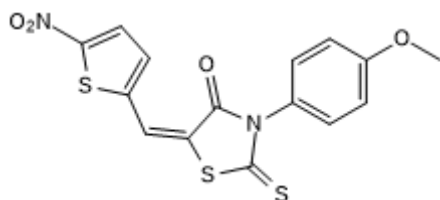
Batch Molecular Formula: C₁₅H₁₀N₂O₄S₃

Batch Molecular Weight: 378.45

Physical Appearance: Brown 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 20 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:

Vatolin *et al* (2016) Novel protein disulfide isomerase inhibitor with anticancer activity in multiple myeloma. *Cancer Res.* **76** 3340. PMID: 27197150.

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