

Certificate of Analysis

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Product Name: PYZD 4409

Catalog No.: 4994

Batch No.: 1

CAS Number: 423148-78-1

IUPAC Name: 1-(3-Chloro-4-fluorophenyl)-4-[(5-nitro-2-furanyl)methylene]-3,5-pyrazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₇ClFN₃O₅

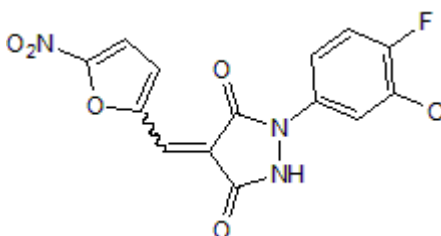
Batch Molecular Weight: 351.67

Physical Appearance: Brown solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	47.81	2	11.95
Found	47.52	1.93	11.91

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

Product Information

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Description:

Ubiquitin-activating enzyme (E1) inhibitor. Blocks degradation of p53 and cyclin D3. Inhibits NF-κB activation and induces cell death associated with ER stress. Displays antitumor effects in a mouse model of leukemia.

Physical and Chemical Properties:

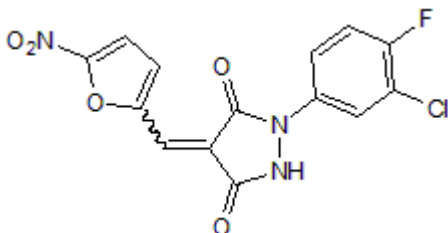
Batch Molecular Formula: C₁₄H₇ClFN₃O₅

Batch Molecular Weight: 351.67

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 100 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:

Xu et al (2010) The ubiquitin-activating enzyme E1 as a therapeutic target for the treatment of leukemia and multiple myeloma. *Blood* **115** 2251. PMID: 20075161.

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