

Certificate of Analysis

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Product Name: AS 252424

Catalog No.: 3671

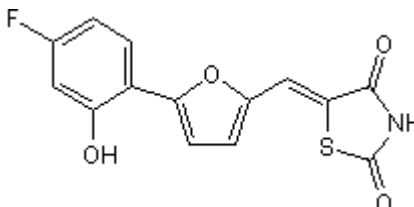
Batch No.: 2

CAS Number: 900515-16-4

IUPAC Name: 5-[[5-(4-Fluoro-2-hydroxyphenyl)-2-furanyl]methylene]-2,4-thiazolidinedione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₈FNO₄S
Batch Molecular Weight: 305.28
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
 ethanol to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.51 (Ethyl acetate:Petroleum ether [2:3])
HPLC: Shows >99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	55.08	2.64	4.59
Found	54.72	2.6	4.62

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

Product Information

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Description:

Potent and selective inhibitor of PI 3-kinase γ (IC₅₀ values are 33 and 935 nM for PI 3-K γ and PI 3-K α respectively).

Physical and Chemical Properties:

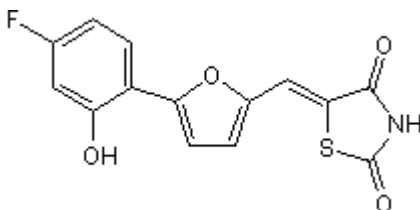
Batch Molecular Formula: C₁₄H₈FN₂O₄S

Batch Molecular Weight: 305.28

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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:

Condcliffe et al (2005) Sequential activation of class IB and IA PI3K is important for the primed respiratory burst of human but not murine neutrophils. *Blood* **106** 1432. PMID: 15878979.

Pomel et al (2006) Furan-2-ylmethylene thiazolidinediones as novel, potent, and selective inhibitors of phosphoinositide 3-kinase γ . *J. Med. Chem.* **49** 3857. PMID: 16789742.

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