

Certificate of Analysis

Product Name: AS 605240

Catalog No.: 3578

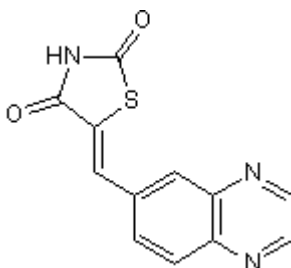
Batch No.: 1

CAS Number: 648450-29-7

IUPAC Name: 5-(6-Quinoxalinylmethylene)-2,4-thiazolidine-2,4-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₂ H ₇ N ₃ O ₂ S
Batch Molecular Weight:	257.27
Physical Appearance:	Red solid
Solubility:	DMSO to 1 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	56.02	2.74	16.33
Found	56	2.75	16.26

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

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Description:

Potent and selective inhibitor of PI 3-kinase γ (PI 3-K γ) (IC₅₀ = 8 nM). Displays 30-fold selectivity over PI 3-K δ and PI 3-K β and 7.5-fold selectivity over PI 3-K α . Suppresses the progression of joint inflammation and damage in both lymphocyte-independent and lymphocyte-dependent mouse models of rheumatoid arthritis. Orally active and ATP-competitive.

Physical and Chemical Properties:

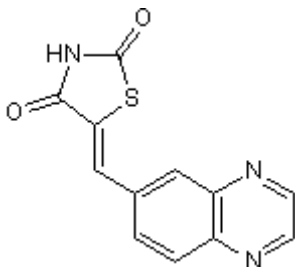
Batch Molecular Formula: C₁₂H₇N₃O₂S

Batch Molecular Weight: 257.27

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Peng et al (2010) Inhibition of phosphoinositide 3-kinase ameliorates dextran sodium sulfate-induced colitis in mice. *J.Pharmacol.Exp.Ther.* **332** 46. PMID: 19828878.

Wang et al (2009) Phosphoinositide 3-kinase γ inhibitor ameliorates concanavalin A-induced hepatic injury in mice. *Biochem.Biophys.Res.Comm.* **386** 569.

Camps et al (2005) Blockade of PI3K γ suppresses joint inflammation and damage in mouse models of rheumatoid arthritis. *Nature Med.* **11** 936.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 1 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.

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