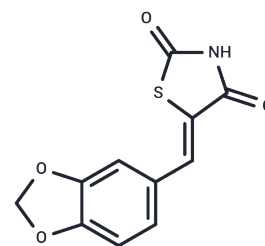


AS-041164

Chemical Properties

CAS No. : 6318-41-8
 Formula: C₁₁H₇N₀O₄S
 Molecular Weight: 249.24
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	AS-041164 is a selective and orally active PI3K γ isoform inhibitor (IC ₅₀ of 70 nM), and shows less activity against PI3K α , PI3K β , and PI3K δ (IC ₅₀ s of 240 nM, 1.45 μ M, and 1.70 μ M, respectively). It has anti-inflammatory effects.
Targets(IC ₅₀)	PI3K
In vivo	AS-041164 (3-100 mg/kg p.o.) treatment dose-dependently decreases r-h regulated on activation normal T cell expressed and secreted (RANTES)-induced neutrophil recruitment in mice. The ED ₅₀ value for AS-041164 is 27.35 mg/kg. AS-041164 blocks RANTES-induced chemotaxis and reduces the level of AKT phosphorylation. AS-041164 (10-100 mg/kg; oral administration; once) treatment results in the reduction of inflammatory swelling in the model of carrageenan-induced paw edema.

Solubility Information

Solubility	DMSO: 125 mg/mL (501.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1 mg/mL (4.01 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0122 mL	20.061 mL	40.122 mL
5 mM	0.8024 mL	4.0122 mL	8.0244 mL
10 mM	0.4012 mL	2.0061 mL	4.0122 mL
50 mM	0.0802 mL	0.4012 mL	0.8024 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chiara Ferrandi, et al. Phosphoinositide 3-kinase gamma inhibition plays a crucial role in early steps of inflammation by blocking neutrophil recruitment. *J Pharmacol Exp Ther.* 2007 Sep;322(3):923-30.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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