

FPL 62064

Chemical Properties

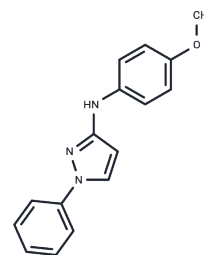
CAS No. : 103141-09-9

Formula: C₁₆H₁₅N₃O

Molecular Weight: 265.31

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	FPL 62064 is a potent dual inhibitor of 5-lipoxygenase (5-LOX) and COX (IC ₅₀ of 3.5 μM and 3.1 μM for RBL-1 cytosolic 5-lipoxygenase and prostaglandin synthetase, respectively).
Targets(IC ₅₀)	COX,Lipoxygenase
In vivo	FPL 62064 inhibited UV irradiation-induced erythema and PGE ₂ formation in the guinea pig and also oedema formation and eicosanoid production in the mouse ear produced by arachidonic acid. Co-injected with arachidonic acid in rabbit skin, FPL 62064 inhibited oedema and eicosanoid formation.
Animal Research	Animal Model:Female LACA mice (20-30 g) injected with immune complex. Dosage:5 mg/kg, 10 mg/kg, 20 mg/kg. Administration:Intraperitoneal injection.

Solubility Information

Solubility	DMSO: 250 mg/mL (942.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (18.85 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	3.7692 mL	18.8459 mL	37.6918 mL
5 mM	0.7538 mL	3.7692 mL	7.5384 mL
10 mM	0.3769 mL	1.8846 mL	3.7692 mL
50 mM	0.0754 mL	0.3769 mL	0.7538 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

Blackham A, et al. FPL 62064, a topically active 5-lipoxygenase/cyclooxygenase inhibitor. Agents Actions. 1990 Jun;30(3-4):432-42.

Shabaan MA, et al. Synthesis and biological evaluation of pyrazolone analogues as potential anti-inflammatory agents targeting cyclooxygenases and 5-lipoxygenase. Arch Pharm (Weinheim). 2020 Feb 7:e1900308.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481