

BI605906

Chemical Properties

CAS No. : 960293-88-3

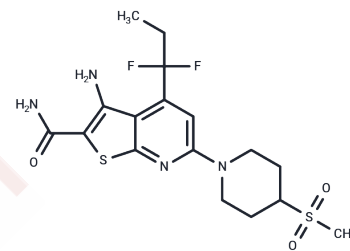
Formula: C₁₇H₂₂F₂N₄O₃S₂

Molecular Weight: 432.51

Store at low temperature

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	BI605906 is an IKK β inhibitor that inhibits tumor necrosis factor alpha-dependent I κ B degradation and expression of the pro-inflammatory mediator interleukin-6, which can be used to study inflammatory skin diseases such as psoriasis.
Targets(IC50)	IL Receptor, I κ B/IKK
In vitro	BI605906, as a novel IKK β inhibitor, inhibits TNF α -induced degradation of the NF- κ B negative regulator I κ B in primary mouse hepatocytes treated with metformin for 3 hours. Additionally, it regulates AMPK and MTOR signaling in a dose-dependent manner [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (92.48 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: 1 mg/mL (2.31 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	2.3121 mL	11.5604 mL	23.1209 mL
5 mM	0.4624 mL	2.3121 mL	4.6242 mL
10 mM	0.2312 mL	1.156 mL	2.3121 mL
50 mM	0.0462 mL	0.2312 mL	0.4624 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

Clark K, et al. Novel cross-talk within the IKK family controls innate immunity. *Biochem J.* 2011 Feb 15;434(1):93-104.

Cameron AR, et al. Anti-Inflammatory Effects of Metformin Irrespective of Diabetes Status. *Circ Res.* 2016 Aug 19; 119(5):652-65.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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