

Ansornitinib

Chemical Properties

CAS No. : 1448874-96-1

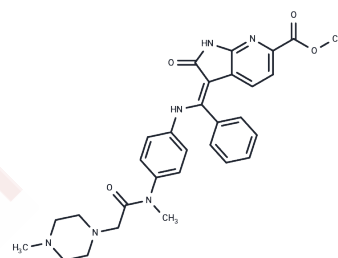
Formula: C₃₀H₃₂N₆O₄

Molecular Weight: 540.61

Store at low temperature

Storage: Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Ansornitinib (ANG-3070) is an orally active KDR and PDGF receptor inhibitor with antifibrotic activity that inhibits platelet-derived growth factor receptor (PDGFR) and vascular endothelial growth factor receptor (VEGFR2), and may be useful for the study of diseases caused by abnormal or excessive fibrosis.
Targets(IC50)	PDGFR,VEGFR
In vitro	Ansornitinib, at concentrations ranging from 0.1 nM to 10 μM, significantly inhibits the phosphorylation of PDGFRβ in human hepatic stellate cells and KDR phosphorylation in human umbilical vein endothelial cells (HUVECs) within 2 hours[1].
In vivo	In 8-10 weeks TGFβ positive female mice, Ansornitinib (25 mg / kg ; oral administration ; twice a day ; 4 weeks) could reduce lung fibrosis score, lung levels and αSMA, a marker of early pulmonary fibrosis[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (37 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 (9.25 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	1.8498 mL	9.2488 mL	18.4976 mL
5 mM	0.370 mL	1.8498 mL	3.6995 mL
10 mM	0.185 mL	0.9249 mL	1.8498 mL
50 mM	0.037 mL	0.185 mL	0.370 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

Shakil ASLAM, et al. Reducing fibrosis and treating related diseases, disorders, and conditions. WO2022006278.

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