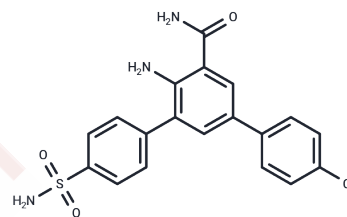


HPN-01

Chemical Properties

CAS No. : 928655-63-4
 Formula: C₁₉H₁₆ClN₃O₃S
 Molecular Weight: 401.87
 Storage: Store at low temperature
 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	HPN-01 (IKK inhibitor XII) is a selective IKK inhibitor that inhibits IKK- α , IKK- β , and IKK- ϵ . HPN-01 reduces the severity of the disease, attenuates the immune imbalance, and prolongs the lifespan of mice in a model of autoimmune encephalomyelitis, and can be used to study immune disorders.
Targets(IC50)	I κ B/IKK
In vitro	HPN-01 could inhibit the expression of SREBP-1 and SREBP-2 in human primary hepatocytes, and the IC50 values were 1.71 and 3.43, respectively. It is commonly used in the study of nonalcoholic fatty liver disease (NAFLD)[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (199.07 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: 3.3 mg/mL (8.21 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	2.4884 mL	12.4418 mL	24.8837 mL
5 mM	0.4977 mL	2.4884 mL	4.9767 mL
10 mM	0.2488 mL	1.2442 mL	2.4884 mL
50 mM	0.0498 mL	0.2488 mL	0.4977 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

Christopher JA, et al. The discovery of 2-amino-3,5-diarylbenzamide inhibitors of IKK-alpha and IKK-beta kinases. *Bioorg Med Chem Lett*. 2007 Jul 15;17(14):3972-7.

Ke Li, et al. Amino-aryl-benzamide compounds and methods of use thereof. WO2018204775A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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