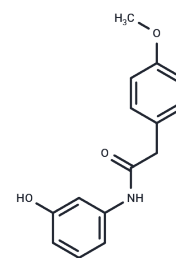


NLRP3/AIM2-IN-2

Chemical Properties

CAS No. :	791840-86-3
Formula:	C ₁₅ H ₁₅ NO ₃
Molecular Weight:	257.28
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	NLRP3/AIM2-IN-2 is a novel potent inhibitor with different species-specific effects on NLRP3 and AIM2 inflammasome dependent pyroptosis with IC ₅₀ of 0.2392 ± 0.0233 μ M.
Targets(IC ₅₀)	NOD-like Receptor (NLR),AIM2

Solubility Information

Solubility	DMSO: 270 mg/mL (1049.44 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: 4 mg/mL (15.55 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (38.87 mM),Suspension. <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	3.8868 mL	19.4341 mL	38.8682 mL
5 mM	0.7774 mL	3.8868 mL	7.7736 mL
10 mM	0.3887 mL	1.9434 mL	3.8868 mL
50 mM	0.0777 mL	0.3887 mL	0.7774 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

Jiao Y, et al. Discovery of a novel and potent inhibitor with differential species-specific effects against NLRP3 and AIM2 inflammasome-dependent pyroptosis. *Eur J Med Chem.* 2022;232:114194.

Zhang R, et al. New Highly Potent NLRP3 Inhibitors: Furanochalcone Velutone F Analogues. *ACS Med Chem Lett.* 2022;13(4):560-569.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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