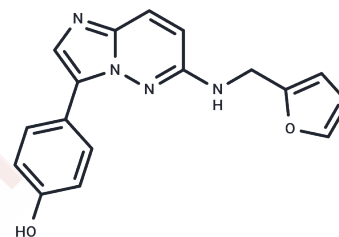


IRAK inhibitor 2

Chemical Properties

CAS No. :	928333-30-6
Formula:	C ₁₇ H ₁₄ N ₄ O ₂
Molecular Weight:	306.32
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	IRAK inhibitor 2 (IRAK-IN-2) is a potent inhibitor of interleukin 1 receptor-associated kinase 4 (IRAK-4) for the study of inflammation-related diseases.
Targets(IC50)	IRAK

Solubility Information

Solubility	DMSO: 30 mg/mL (97.94 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: 2 mg/mL (6.53 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	3.2646 mL	16.3228 mL	32.6456 mL
5 mM	0.6529 mL	3.2646 mL	6.5291 mL
10 mM	0.3265 mL	1.6323 mL	3.2646 mL
50 mM	0.0653 mL	0.3265 mL	0.6529 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

Allahyari M, et al. IRAK inhibitor can improve insulin sensitivity in insulin-resistant mice fed with a high-fat diet. Asian Biomed (Res Rev News). 2020 Dec 31;14(6):253-260.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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