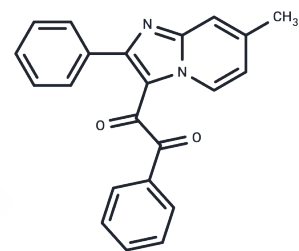


## IRAK4-IN-4

## Chemical Properties

CAS No. :	1850276-58-2
Formula:	C <sub>22</sub> H <sub>16</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	340.37
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	IRAK4-IN-4 (compound 15) inhibits cyclic GMP-AMP synthase (cGAS) with an IC <sub>50</sub> of 2.1 nM. IRAK4-IN-4 is an interleukin-1 receptor-associated kinase 4 (IRAK4) inhibitor, has an IC <sub>50</sub> of 2.8 nM.
Targets(IC <sub>50</sub> )	cGAS, IRAK

## Solubility Information

Solubility	DMSO: 24 mg/mL (70.51 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 (5.88 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	2.938 mL	14.6899 mL	29.3798 mL
5 mM	0.5876 mL	2.938 mL	5.876 mL
10 mM	0.2938 mL	1.469 mL	2.938 mL
50 mM	0.0588 mL	0.2938 mL	0.5876 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

One class has the naphthalene second dione compounds and its derivative of protease modification activities.  
CN107163044A.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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