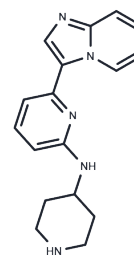


IRAK inhibitor 1

Chemical Properties

CAS No. :	1042224-63-4
Formula:	C17H19N5
Molecular Weight:	293.37
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	IRAK inhibitor 1 is an effective IRAK-4 inhibitor (IC ₅₀ : 216 nM), is poorly active against JNK-1 (IC ₅₀ : 3.801 μM) and JNK-2 (IC ₅₀ >10 μM).
Targets(IC ₅₀)	IRAK,JNK

Solubility Information

Solubility	DMSO: 10 mg/mL (34.09 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: 1 mg/mL (3.41 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	3.4087 mL	17.0433 mL	34.0866 mL
5 mM	0.6817 mL	3.4087 mL	6.8173 mL
10 mM	0.3409 mL	1.7043 mL	3.4087 mL
50 mM	0.0682 mL	0.3409 mL	0.6817 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

Buckley GM, et al. IRAK-4 inhibitors. Part II: A structure-based assessment of imidazo[1,2-a]pyridine binding. Bioorg Med Chem Lett. 2008 Jun 1;18(11):3291-5.

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