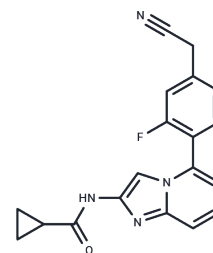


## JAK-IN-14

## Chemical Properties

CAS No. :	1973485-06-1
Formula:	C <sub>19</sub> H <sub>15</sub> N <sub>4</sub> O
Molecular Weight:	334.35
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	JAK-IN-14 (compound 16) is a specific JAK1 inhibitor with IC <sub>50</sub> <5 μM. It prevents JAK1 phosphorylation by binding to the active site of JAK1, and is more than 8-fold selective for JAK1 over JAK2/JAK3, and can be used in immune, inflammation and cancer research.
Targets(IC50)	JAK

## Solubility Information

Solubility	DMSO: 5 mg/mL (14.95 mM), Sonication and heating are 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 (2.99 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	2.9909 mL	14.9544 mL	29.9088 mL
5 mM	0.5982 mL	2.9909 mL	5.9818 mL
10 mM	0.2991 mL	1.4954 mL	2.9909 mL
50 mM	0.0598 mL	0.2991 mL	0.5982 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

Jin Li, et al. Substituted imidazo [1, 2-a] pyridin-2-ylamine compounds, and pharmaceutical compositions and methods of use thereof. WO2016119700A1.

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