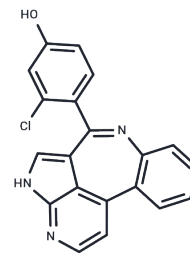


## JAK-2/3-IN-1

## Chemical Properties

CAS No. :	1036241-36-7
Formula:	C <sub>20</sub> H <sub>12</sub> ClN <sub>3</sub> O
Molecular Weight:	345.79
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	JAK-2/3-IN-1 is a highly effective inhibitor targeting both JAK-2 and JAK-3 isoforms, exhibiting remarkable potency with Ki values below 250 nM for both isoforms.
Targets(IC50)	Others,JAK
In vitro	The Janus kinases (JAK), comprising JAK-1, JAK-2, JAK-3, and TYK-2, are essential tyrosine kinases in cytokine signaling, with their downstream targets including signal transducer and activator of transcription (STAT) proteins. The JAK/STAT pathway is crucial in mediating various aberrant immune responses, including allergies, asthma, autoimmune diseases, and both solid and hematologic malignancies[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8919 mL	14.4596 mL	28.9193 mL
5 mM	0.5784 mL	2.8919 mL	5.7839 mL
10 mM	0.2892 mL	1.446 mL	2.8919 mL
50 mM	0.0578 mL	0.2892 mL	0.5784 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

Youssef Bennani, et al. Tricyclic heteroaryl compounds useful as inhibitors of Janus kinase. US8163732B2.

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

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