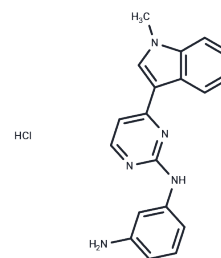


## Dual Cathepsin L/JAK-IN-1

### Chemical Properties

CAS No. :	2450279-41-9
Formula:	C <sub>19</sub> H <sub>18</sub> ClN <sub>5</sub>
Molecular Weight:	351.833
Storage:	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	DualCathepsinL/JAK-IN-1 (Compound A8) serves as a dual inhibitor of Cathepsin L (CTSL) and JAK, exhibiting IC <sub>50</sub> values of 0.68 μM for CTSL and 337.1 nM, 5.251 nM, 27.29 nM, and 172.6 nM for JAK1/2/3 and TYK2, respectively. This compound effectively prevents the activation of MAPK, NF-κB, and JAK/STAT signaling pathways, leading to significant anti-inflammatory therapeutic effects. DualCathepsinL/JAK-IN-1 is applicable in research on acute lung injury (ALI).
Targets(IC <sub>50</sub> )	STAT,Cysteine Protease,Interleukin,JAK,p38 MAPK

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8423 mL	14.2114 mL	28.4228 mL
5 mM	0.5685 mL	2.8423 mL	5.6846 mL
10 mM	0.2842 mL	1.4211 mL	2.8423 mL
50 mM	0.0568 mL	0.2842 mL	0.5685 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.

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

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