

JB170

## Chemical Properties

CAS No. : 2705844-82-0

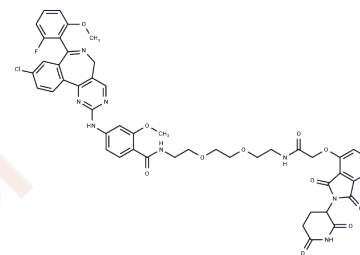
Formula: C<sub>48</sub>H<sub>44</sub>ClFN<sub>8</sub>O<sub>11</sub>

Molecular Weight: 963.36

Keep away from direct sunlight

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	JB170 is a highly efficient and specific Aurora A degradator (DC <sub>50</sub> = 28 nM). The PROTAC is composed of Alisertib and Thalidomide, with an EC <sub>50</sub> value for AURORA-A that is ten times that of AURORA-B. It induces S-phase arrest in cell growth and inhibits the non-catalytic function of the AURORA-A kinase.
Targets(IC <sub>50</sub> )	Aurora Kinase,PROTACs

## Solubility Information

Solubility	DMSO: 80 mg/mL (83.04 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (3.43 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	1.038 mL	5.1902 mL	10.3803 mL
5 mM	0.2076 mL	1.038 mL	2.0761 mL
10 mM	0.1038 mL	0.519 mL	1.038 mL
50 mM	0.0208 mL	0.1038 mL	0.2076 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

An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562.

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