

BLU-222

## Chemical Properties

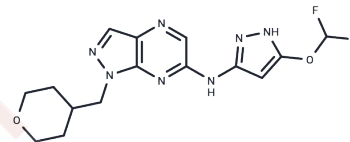
CAS No. : 2888704-84-3

Formula: C<sub>15</sub>H<sub>17</sub>F<sub>2</sub>N<sub>7</sub>O<sub>2</sub>

Molecular Weight: 365.34

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	BLU-222 is an orally available but selective cell cycle protein-dependent kinase (CDK2) inhibitor with antitumor activity for the study of ovarian and uterine cancer.
Targets(IC50)	Apoptosis,CDK

## Solubility Information

Solubility	DMSO: 250 mg/mL (684.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (27.37 mM),Suspension. <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	2.7372 mL	13.6859 mL	27.3718 mL
5 mM	0.5474 mL	2.7372 mL	5.4744 mL
10 mM	0.2737 mL	1.3686 mL	2.7372 mL
50 mM	0.0547 mL	0.2737 mL	0.5474 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

Talbot T, et al. Amplified therapeutic targets in high-grade serous ovarian carcinoma - a review of the literature with quantitative appraisal. *Cancer Gene Ther.* 2023 Jul;30(7):955-963.

Patel M R, et al. BLU-222, an oral, potent, and selective CDK2 inhibitor, in patients with advanced solid tumors: Phase 1 monotherapy dose escalation[J]. 2023.

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