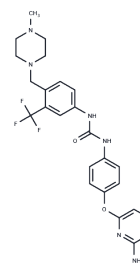


AUZ 454

## Chemical Properties

CAS No. : 853299-07-7  
 Formula: C<sub>24</sub>H<sub>26</sub>F<sub>3</sub>N<sub>7</sub>O<sub>2</sub>  
 Molecular Weight: 501.5  
 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	AUZ 454 (K03861) is a type II CDK2 inhibitor with K <sub>d</sub> values of 50 nM for CDK2(WT), 18.6 nM for CDK2(C118L), 15.4 nM for CDK2(A144C), and 9.7 nM for CDK2(C118L/A144C).
Targets(IC <sub>50</sub> )	CDK
In vitro	K03861 inhibits CDK2 activity by competing with binding of activating cyclins. [1]

## Solubility Information

Solubility	Ethanol: 12 mg/mL (23.93 mM),Sonication is recommended. DMSO: 245 mg/mL (488.53 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.58 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

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.994 mL	9.9701 mL	19.9402 mL
5 mM	0.3988 mL	1.994 mL	3.988 mL
10 mM	0.1994 mL	0.997 mL	1.994 mL
50 mM	0.0399 mL	0.1994 mL	0.3988 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

Alexander LT, et al. ACS Chem Biol. 2015, 10(9), 2116-2125.

Meng T G, Lei W L, Li J, et al. Degradation of Ccnb3 is essential for maintenance of MII arrest in oocyte. Biochemical and Biophysical Research Communications. 2020, 521(1): 265-269

Meng T G, Lei W L, Li J, et al. Degradation of Ccnb3 is essential for maintenance of MII arrest in oocyte[[]]. Biochemical and Biophysical Research Communications. 2020, 521(1): 265-269

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

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481