

## PARP-2-IN-3

## Chemical Properties

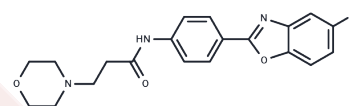
CAS No. : 2915650-86-9

Formula: C<sub>20</sub>H<sub>20</sub>ClN<sub>3</sub>O<sub>3</sub>

Molecular Weight: 385.84

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	PARP-2-IN-3 is used as a potent PARP-2 inhibitor (IC <sub>50</sub> =0.07 μM) with anti-tumor activity that induces apoptosis and necrosis in cancer cells, and can be used for the study of breast cancer.128-52-56-8
Targets(IC <sub>50</sub> )	Apoptosis,PARP
In vitro	PARP-2-IN-3 (Compound 12) proved to be the most active PARP-2 inhibitor with an IC <sub>50</sub> value of 0.07 μM, respectively.PARP-2-IN-3 induced cell cycle arrest at G <sub>2</sub> /M and G <sub>1</sub> /S phases in a mutant MCF-7 cell line, and possessed significant apoptosis-inducing activity[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5917 mL	12.9587 mL	25.9175 mL
5 mM	0.5183 mL	2.5917 mL	5.1835 mL
10 mM	0.2592 mL	1.2959 mL	2.5917 mL
50 mM	0.0518 mL	0.2592 mL	0.5183 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

El-Ghobashy NM, et al. Synthesis, biological evaluation, and molecular modeling studies of new benzoxazole derivatives as PARP-2 inhibitors targeting breast cancer. Sci Rep. 2022 Sep 28;12(1):16246.

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