

BG11

## Chemical Properties

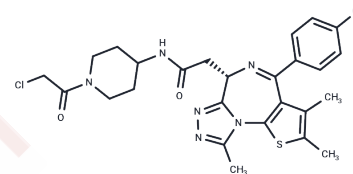
CAS No. : 3065877-52-0

Formula: C<sub>26</sub>H<sub>28</sub>Cl<sub>2</sub>N<sub>6</sub>O<sub>2</sub>S

Molecular Weight: 559.511

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	BG11 promotes the accumulation of Fe <sup>2+</sup> and intracellular lipid peroxides, leading to ferroptosis (iron-dependent cell death). It regulates the expression of Bax and Bcl-2 proteins, inducing apoptosis (programmed cell death) in MDA-MB-231 cells. BG11 also causes cell cycle arrest at the G <sub>0</sub> /G <sub>1</sub> and S phases, inhibiting the proliferation of TNBC cancer cells, with IC <sub>50</sub> values of 0.49 μM for MDA-MB-231 and 0.52 μM for BT549. Additionally, it reduces cell migration and invasion and demonstrates antitumor effects in mouse models.
Targets(IC <sub>50</sub> )	Apoptosis, Ferroptosis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7873 mL	8.9364 mL	17.8728 mL
5 mM	0.3575 mL	1.7873 mL	3.5746 mL
10 mM	0.1787 mL	0.8936 mL	1.7873 mL
50 mM	0.0357 mL	0.1787 mL	0.3575 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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