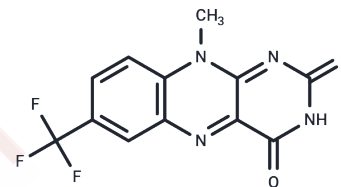


PLK1-IN-9

## Chemical Properties

CAS No. : 893772-67-3  
 Formula: C<sub>12</sub>H<sub>7</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 296.20  
 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	PLK1-IN-9 (Compound M2), a polo-like kinase 1 (PLK1) inhibitor, targets the PLK proteins modified with peptides 1010pT, cdc25c, and PBIP, exhibiting IC <sub>50</sub> values of 1.6, 0.8, and 1.4 μM, respectively. This compound effectively inhibits the proliferation of various cancer cell lines including HeLa, HL60, SNU387/499, and HepG2, demonstrating cytotoxic effects and inducing apoptosis. Additionally, PLK1-IN-9 has been shown to suppress tumor growth in a HepG2 xenograft mouse model.
Targets(IC <sub>50</sub> )	PLK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3761 mL	16.8805 mL	33.761 mL
5 mM	0.6752 mL	3.3761 mL	6.7522 mL
10 mM	0.3376 mL	1.688 mL	3.3761 mL
50 mM	0.0675 mL	0.3376 mL	0.6752 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

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

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