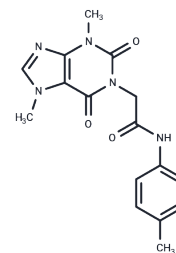


T-1-PMPA

Chemical Properties

CAS No. :	1323883-62-0
Formula:	C ₁₆ H ₁₇ N ₅ O ₃
Molecular Weight:	327.34
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	T-1-PMPA, a potent EGFR inhibitor, demonstrates apoptotic properties and effectively inhibits EGFR WT and EGFR 790m, with IC ₅₀ values of 86 nM and 561.73 nM, respectively [1].
Targets(IC ₅₀)	Apoptosis,EGFR
In vitro	T-1-PMPA (0.312-10 μM; 24 h) significantly suppresses the proliferation of HepG2 and MCF7 malignant cell lines, with IC ₅₀ values of 3.51 μM and 4.13 μM respectively [1]. In HepG2 cells, T-1-PMPA increases the proportion of early apoptotic cells from 0.77% to 29.17%, late apoptotic cells from 0.17% to 8.81%, and the overall apoptotic cell population from 3.05% to 42.03%. Additionally, the percentage of necrotic cells rises to 4.05% compared to 2.21% in control cells. qRT-PCR analysis reveals a significant increase in levels of caspase-3 and caspase-9, further supporting its apoptotic effect. T-1-PMPA regulates TNFα and IL2 levels to 74% and 50% accordingly [1]. Cell Viability Assay [1] Cell Line: HepG2 and MCF7 malignant cell lines Concentration: 0.312 μM, 0.625 μM, 1.25 μM, 2.5 μM, 5 μM, 10 μM Incubation Time: 24 h Result: Displayed noteworthy inhibition of the proliferation of HepG2 and MCF7 malignant cell lines.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0549 mL	15.2746 mL	30.5493 mL
5 mM	0.611 mL	3.0549 mL	6.1099 mL
10 mM	0.3055 mL	1.5275 mL	3.0549 mL
50 mM	0.0611 mL	0.3055 mL	0.611 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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