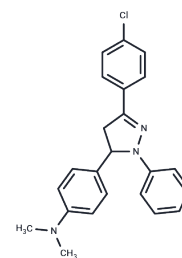


Anticancer agent 231

Chemical Properties

CAS No. :	128519-30-2
Formula:	C ₂₃ H ₂₂ ClN ₃
Molecular Weight:	375.89
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	Anticancer agent 231 (compound P5) is a tyrosine kinase inhibitor with an IC ₅₀ value of 3.95 μ M. It targets the EGFR-ERK1/2 signaling pathway, reducing cell viability, proliferation, migration, and cancer stemness in triple-negative breast cancer (TNBC) cells, potentially playing a significant role in the treatment of TNBC.
Targets(IC ₅₀)	ERK
In vitro	Anticancer agent 231 (compound P5) exhibits notable cytotoxic effects and impairs the viability of TNBC cells. It reduces the proliferation of Hs578T and MDA MB 231 cells at concentrations of 1, 2, and 4 μ M over periods of 14 and 8 days. Furthermore, at doses of 1, 2, and 4 μ M for 12 hours, this agent diminishes the migratory abilities of Hs578T cells. At concentrations of 1 and 2 μ M, it inhibits tumor stemness and enhances the sensitivity of TNBC cells to paclitaxel. Lastly, Anticancer agent 231 targets the EGFR-ERK 1/2 axis to inhibit TNBC cells at two dosing ranges, 1, 2, 4 μ M and 5, 10, 20 μ M.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6604 mL	13.3018 mL	26.6035 mL
5 mM	0.5321 mL	2.6604 mL	5.3207 mL
10 mM	0.266 mL	1.3302 mL	2.6604 mL
50 mM	0.0532 mL	0.266 mL	0.5321 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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