

EGFR-IN-186

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	EGFR-IN-186 is a potent EGFR inhibitor with an IC50 value of 0.065 μ M. It also exhibits inhibitory activity against EGFR L858R (IC50= 0.528 μ M) and EGFR T790M (IC50= 0.465 μ M). EGFR-IN-186 induces apoptosis by increasing levels of Bax and caspase-3, while decreasing the expression of Bcl-2. This compound can be utilized in non-small cell lung cancer (NSCLC) research.
Targets(IC50)	Apoptosis,EGFR,Bcl-2 Family,Caspase
In vitro	EGFR-IN-186 (compound 6) demonstrates potent cytotoxicity against A549, NCI-H460, and HOP-62 cancer cell lines, with IC50 values of 4.55, 26.09, and 10.72 μ M, respectively, while exhibiting significantly lower toxicity to normal human lung fibroblast WI-38 cells (IC50 = 44.64 μ M). It also shows enhanced cytotoxicity to A-549 cells post-radiation, with an IC50 of 2.38 μ M, indicating notable radiosensitizing properties. Additionally, EGFR-IN-186 (4.55 μ M; 48 hours) induces apoptosis in A549 cells by increasing Bax and caspase-3 levels and downregulating Bcl-2 expression.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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