

Aurora kinase-IN-8

Chemical Properties

CAS No. :	1911629-44-1
Formula:	C ₂₅ H ₂₇ N ₇
Molecular Weight:	425.54
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	Aurora kinase-IN-8 is a bioavailable inhibitor of Aurora kinases, with IC ₅₀ values of 2.8 nM for Aurora A kinase and 28.1 nM for Aurora B kinase. It disrupts spindle formation, causes G ₂ /M phase arrest, and induces apoptosis (apoptosis). This compound is applicable in cancer research, including studies on triple-negative breast cancer.
Targets(IC ₅₀)	Apoptosis,Aurora Kinase
In vitro	Aurora kinase-IN-8 (Compound 9h) demonstrates significant efficacy against MDA-MB-231 cells with an IC ₅₀ value of 48 nM, while exhibiting IC ₅₀ values ranging from 40-560 nM in other cancer cell lines. At a concentration of 1 μM for 48 hours, Aurora kinase-IN-8 inhibits the phosphorylation of Aurora A kinase in MDA-MB-231 cells. Additionally, it disrupts spindle formation under the same conditions. Furthermore, Aurora kinase-IN-8, in the range of 0.3-1.2 μM for 24 hours, induces G ₂ /M phase arrest and apoptosis in MDA-MB-231 cells.
In vivo	Aurora kinase-IN-8 (Compound 9h) significantly inhibits tumor growth in the MDA-MB-231 xenograft mouse model when administered orally at a dose of 30 mg/kg every other day for 19 days.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.350 mL	11.7498 mL	23.4996 mL
5 mM	0.470 mL	2.350 mL	4.6999 mL
10 mM	0.235 mL	1.175 mL	2.350 mL
50 mM	0.047 mL	0.235 mL	0.470 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481