Data Sheet (Cat.No.T89903)

TargetMol

AURKA against 1

Chemical Properties

CAS No. :

Formula: C28H32FN9O2

Molecular Weight: 545.61

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	Compound Ac13, also termed AURKA against 1, acts as an inhibitor of the Aurora kinase (AURKA) with an IC50 of less than 0.5 nM, targeting the acetylation of endogenous lysine (K162) and exhibiting anti-tumor cell proliferation activity. The kinase activity of AURKA, acetylated at K162 and induced by AURKA against 1, is reversibly restored in HCT116 cells transfected with SIRT3.
Targets(IC50)	Aurora Kinase
In vitro	Ac13 (0-10 μM, 3 h) exhibits antitumor proliferation effects, displaying GI50 values of 588 nM, 86 nM, and 6.6 nM in K562, HL-60, and CCRF-CEM cells, respectively. It inhibits AURKA autophosphorylation in a dose-dependent manner and suppresses cell viability. Moreover, Ac13 (10 μM, 1 h) induces reversible acetylation of endogenous AURKA at K162 in HCT116 cells expressing SIRT3.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8328 mL	9.1641 mL	18.3281 mL
5 mM	0.3666 mL	1.8328 mL	3.6656 mL
10 mM	0.1833 mL	0.9164 mL	1.8328 mL
50 mM	0.0367 mL	0.1833 mL	0.3666 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.

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