

APE1-IN-2

Chemical Properties

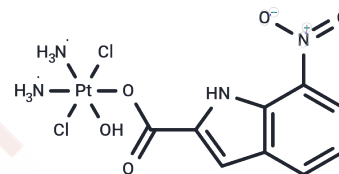
CAS No. : 2923433-95-6

Formula: C₉H₁₂Cl₂N₄O₅Pt

Molecular Weight: 522.21

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	APE1-IN-2 (compound AP1), a Pt(IV) proagent, selectively targets the essential base excision repair protein apurinic/aprimidinic endonuclease 1 (APE1). Exhibiting anticancer properties, APE1-IN-2 prompts the intracellular accumulation of platinum and initiates the activation of DNA damage response and apoptosis pathways [1].
Targets(IC50)	Apoptosis,MDM-2/p53
In vitro	APE1-IN-2 (compound AP1) robustly suppresses malignant cell proliferation, including Cisplatin-resistant strains, exhibiting up to 18.11-fold greater inhibition than Cisplatin [1]. At 500 nM for 24 hours, it halts cell cycle progression in A549 and MCF7 cells [1], while at 10 μM for 24 hours, it induces p53-dependent apoptosis in A549 cells [1]. Additionally, APE1-IN-2 dose-dependently inhibits AP-cleavage activity with an IC50 of 45.14 ± 17.37 μM over 72 hours [1]. It directly targets APE1 endonuclease activity, disrupting miRNA processing and enhancing PTEN, a tumor suppressor gene expression [1].
In vivo	APE1-IN-2 (compound AP1) (2 mg/kg, IP, administered once every three days for 15 days) exhibits antitumor activity in the A549 xenograft model [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9149 mL	9.5747 mL	19.1494 mL
5 mM	0.383 mL	1.9149 mL	3.8299 mL
10 mM	0.1915 mL	0.9575 mL	1.9149 mL
50 mM	0.0383 mL	0.1915 mL	0.383 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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