

## APE1-IN-2

## Chemical Properties

CAS No. : 2923433-95-6

Formula: C<sub>9</sub>H<sub>12</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>5</sub>Pt

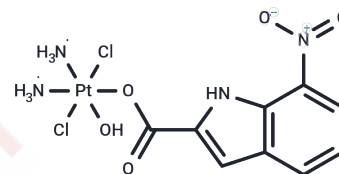
Molecular Weight: 522.21

Storage:

Keep away from direct sunlight, The compound is unstable in solution. Please use soon

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].

## Solubility Information

Solubility	DMSO: Soluble,DMSO inactivates the activity of APE1-IN-2. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481