

## NHEJ inhibitor-1

## Chemical Properties

CAS No. :

Formula: C<sub>30</sub>H<sub>35</sub>N<sub>7</sub>O<sub>8</sub>PtS

Molecular Weight: 848.79

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	NHEJ Inhibitor-1 (Compound C2), a trifunctional Pt(II) complex, mitigates non-homologous end joining (NHEJ)/homologous recombination (HR)-related double strand break (DSB) repairs, combating Cisplatin resistance in non-small cell lung cancer (NSCLC). It achieves this by inhibiting the damage repair proteins Ku70 and Rad51, thus re-sensitizing tumors to Cisplatin. Additionally, this compound prompts the generation of reactive oxygen species (ROS) and reduces mitochondrial membrane potential (MMP) [1].
Targets(IC50)	Others, Reactive Oxygen Species

## Solubility Information

Solubility	DMSO: Slightly soluble, DMSO inactivates the activity of NHEJ inhibitor-1. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1781 mL	5.8907 mL	11.7815 mL
5 mM	0.2356 mL	1.1781 mL	2.3563 mL
10 mM	0.1178 mL	0.5891 mL	1.1781 mL
50 mM	0.0236 mL	0.1178 mL	0.2356 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