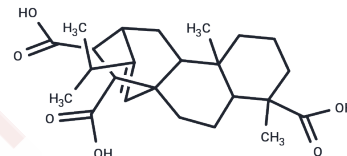


NSC15520

## Chemical Properties

CAS No. : 730960-98-2  
 Formula: C<sub>24</sub>H<sub>34</sub>O<sub>6</sub>  
 Molecular Weight: 418.52  
 Storage: Store at low temperature  
 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	NSC15520 is a replication protein A (RPA) inhibitor that inhibits the binding of Rad9-GST and p53-GST fusion proteins to the N-terminal DNA-binding domain (DBD) of RPA, inhibits helical destabilization of double-stranded DNA (dsDNA) oligonucleotides, and can be used to study DNA damage repair.
Targets(IC50)	Others,DNA/RNA Synthesis
In vitro	NSC15520 blocks the interaction of RPA with the GST-p53 peptide with an IC <sub>50</sub> of 10 μM. NSC15520 (0-400 μM, treatment for 5 min) inhibits helix destabilizing activity and also inhibits RPA binding to dsDNA 30-mer.[1]

## Solubility Information

Solubility	DMSO: 20 mg/mL (47.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3894 mL	11.9469 mL	23.8937 mL
5 mM	0.4779 mL	2.3894 mL	4.7787 mL
10 mM	0.2389 mL	1.1947 mL	2.3894 mL
50 mM	0.0478 mL	0.2389 mL	0.4779 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.

Reference

Glanzer JG, et al. Small molecule inhibitor of the RPA70 N-terminal protein interaction domain discovered using in silico and in vitro methods. *Bioorg Med Chem.* 2011 Apr 15;19(8):2589-95.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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