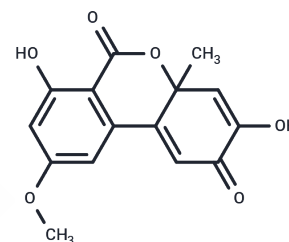


## (±)-Dehydroaltenusin

### Chemical Properties

CAS No. : 34279-44-2  
 Formula: C<sub>15</sub>H<sub>12</sub>O<sub>6</sub>  
 Molecular Weight: 288.25  
 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	(±)-Dehydroaltenusin is an antibiotic that serves as a selective inhibitor of eukaryotic DNA polymerase $\alpha$ (pol $\alpha$ ), exhibiting an IC <sub>50</sub> of 0.68 $\mu$ M. It can be isolated from the fungus <i>Alternaria tenuis</i> . The compound competitively inhibits the activity of DNA template primers (K <sub>i</sub> : 0.23 $\mu$ M) and non-competitively inhibits the activity of 2'-deoxyribonucleoside 5'-triphosphate substrates (K <sub>i</sub> : 0.18 $\mu$ M). Additionally, (±)-Dehydroaltenusin can induce S-phase cell cycle arrest and apoptosis in cancer cells and is applicable in research on cancers such as human adenocarcinoma.
Targets(IC50)	Apoptosis, Antibiotic, DNA/RNA Synthesis

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4692 mL	17.3461 mL	34.6921 mL
5 mM	0.6938 mL	3.4692 mL	6.9384 mL
10 mM	0.3469 mL	1.7346 mL	3.4692 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 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**

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