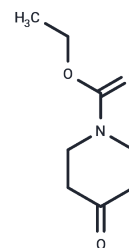


## N-Carboethoxy-4-piperidone

## Chemical Properties

CAS No. : 29976-53-2  
 Formula: C<sub>8</sub>H<sub>13</sub>NO<sub>3</sub>  
 Molecular Weight: 171.19  
 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	N-Carboethoxy-4-piperidone is an aminopyrimidine derivative, compositions containing them and there served as pharmaceuticals.
Targets(IC50)	Others,Drug Metabolite
Kinase Assay	A crude cell-free extract is isolated from LI 210 cells in culture by suspension of the cells in a given volume of 0.05mol/LTris-HCl buffer, pH 7.4, and sonic extraction with a Biosonik at 70% maximal output for 30 sec. The supernatant is collected after centrifugation at 105,000 × g for 60 min (4°C) in a Model L Spinco ultracentrifuge. The final protein concentration of the cell-free extracts is approximately 3 mg/mL. The extracts are used as the source of enzymes. Ribonucleotide reductase activity is measured. A unit of enzyme is defined as the amount that catalyzed dCMP synthesis at a rate of 1 μmole/hr. The assay systems for the measurement of pyrimidine nucleoside (CR) and deoxynucleoside (TdR, CdR) kinases are essentially those described by Chu and Fischer. However, reactions are terminated by heating for 2 min in a boiling water bath, and the phosphorylated derivatives are isolated according to the method of Bach. Fifty-μl aliquots are applied to 1-inch discs of diethylaminoethyl paper, which are then placed in counting vials and eluted with 0.5 mL of 0.5 mol/LPCA. After 1 hr, 12 mL of Diotol are added, and the radioactivity is determined.

## Solubility Information

Solubility	DMSO: 60 mg/mL (350.49 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	5.8415 mL	29.2073 mL	58.4146 mL
5 mM	1.1683 mL	5.8415 mL	11.6829 mL
10 mM	0.5841 mL	2.9207 mL	5.8415 mL
50 mM	0.1168 mL	0.5841 mL	1.1683 mL

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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

Eric Gundersen et al. *Bioorganic & Medicinal Chemistry Letters*, 15(7), 1891-1894 (2005)

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