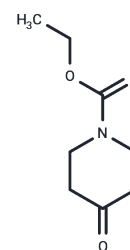


N-Carboethoxy-4-piperidone

Chemical Properties

CAS No. : 29976-53-2
Formula: C₈H₁₃NO₃
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

	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

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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