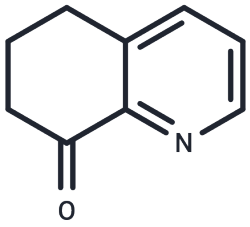
Data Sheet (Cat.No.T36872)

TargetMol

6,7-Dihydro-5H-quinolin-8-one

Chemical Properties



CAS No. : 56826-69-8

Formula: C9H9NO

Molecular Weight: 147.17

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	6,7-Dihydro-5H-quinolin-8-one is a synthetic intermediate.1,2It has been used in the synthesis of tetrahydropyridoazepinones and thiosemicarbazones with anticancer activity.
Targets(IC50)	Others

Solubility Information

Solubility	DMF: 30 mg/mL (203.85 mM),Sonication is recommended. PBS (pH 7.2): 10 mg/mL (67.95 mM),Sonication is recommended. Ethanol: 30 mg/mL (203.85 mM),Sonication is recommended. DMSO: 30 mg/mL (203.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.7949 mL	33.9743 mL	67.9486 mL
5 mM	1.359 mL	6.7949 mL	13.5897 mL
10 mM	0.6795 mL	3.3974 mL	6.7949 mL
50 mM	0.1359 mL	0.6795 mL	1.359 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

Lemke, T.L., Shek, T.W., Cates, L.A., et al.Synthesis of 5,6-dihydro-8(H)-quinolinone thiosemicarbazones as potential antitumor agentsJ. Med. Chem.20(10)1351-1354(1977)

J?ssang-Yanagida, A., and Gansser, C.Tetrahydropyridoazepines and tetrahydropyridoazepinones from the corresponding dihydroquinolonesJ. Heterocycl. Chem.15(2)249-251(1977)

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