

Oxindole

Chemical Properties

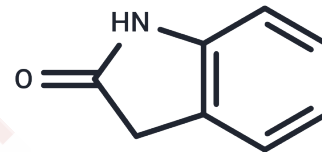
CAS No. : 59-48-3

Formula: C₈H₇NO

Molecular Weight: 133.15

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	Oxindole (Indolin-2-one) is an aromatic heterocyclic building block, and its 2-indolinone derivatives are lead compounds in kinase inhibitor research. The oxindole structure is utilized in receptor tyrosine kinase (RTK) inhibitors, such as SU4984 and intedanib, making the RTK family a significant therapeutic target for anti-cancer drug development.
Targets(IC50)	HIV Protease,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 16.67 mg/mL (125.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (15.02 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.5103 mL	37.5516 mL	75.1033 mL
5 mM	1.5021 mL	7.5103 mL	15.0207 mL
10 mM	0.751 mL	3.7552 mL	7.5103 mL
50 mM	0.1502 mL	0.751 mL	1.5021 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

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