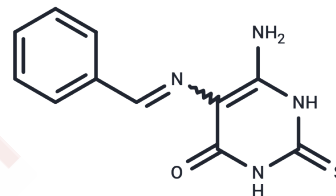


L189

Chemical Properties

CAS No. : 64232-83-3
 Formula: C₁₁H₁₀N₄O_S
 Molecular Weight: 246.29
 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	L189 is a human DNA ligase inhibitor, inhibits hLigI/III/IV (IC ₅₀ : 5/9/5 μM).
Targets(IC ₅₀)	DNA,DNA/RNA Synthesis
In vitro	L189 inhibits DNA ligases I, III and IV in DNA joining assays with purified proteins and in cell extract assays of DNA replication, base excision repair and non-homologous end joining. L189 markedly increases killing of HCT116 colon cancer cells and the other cancer cell lines by ionizing radiation.

Solubility Information

Solubility	Ethanol: 1 mg/mL (4.06 mM),Sonication is recommended. H ₂ O: Insoluble, DMSO: 50 mg/mL (203.01 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 (8.12 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	4.0603 mL	20.3013 mL	40.6025 mL
5 mM	0.8121 mL	4.0603 mL	8.1205 mL
10 mM	0.406 mL	2.0301 mL	4.0603 mL
50 mM	0.0812 mL	0.406 mL	0.8121 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

Xi Chen, et al. Rational Design of Human DNA Ligase Inhibitors that Target Cellular DNA Replication and Repair. Cancer Res 2008; 68: (9). May 1, 2008

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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