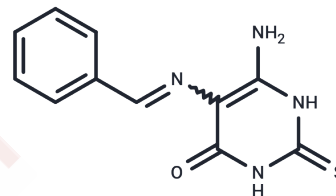


L189

## Chemical Properties

CAS No. : 64232-83-3  
Formula: C<sub>11</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>  
Molecular Weight: 246.29  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## Biological Description

|                            |  |
|----------------------------|--|
| Description                | L189 is a human DNA ligase inhibitor, inhibits hLigI/III/IV (IC <sub>50</sub> : 5/9/5 μM).   |
| Targets(IC <sub>50</sub> ) | 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.<br>H <sub>2</sub> O: Insoluble,<br>DMSO: 50 mg/mL (203.01 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## 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.

## 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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