

**Product Name:** L189

**Catalog No.:** 3561

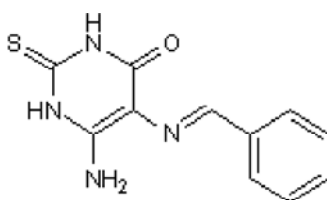
**Batch No.:** 2

CAS Number: 64232-83-3

IUPAC Name: 6-Amino-2,3-dihydro-5-[(phenylmethylene)amino]-2-4(1*H*)-pyrimidineone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>11</sub>H<sub>10</sub>N<sub>4</sub>OS  
**Batch Molecular Weight:** 246.29  
**Physical Appearance:** Off White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.64	4.09	22.75
Found	53.57	4.06	22.55

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

DNA ligase I, III and IV inhibitor (IC<sub>50</sub> values are 5, 9 and 5 μM respectively) that blocks DNA binding (K<sub>i</sub> = 5 μM for DNA ligase I). Preferentially inhibits step 2 of the ligation reaction, and inhibits base excision repair (BER) and non-homologous end joining (NHEJ). Specifically sensitizes cancer cells to DNA damage and increases the cytotoxicity of DNA-damaging agents.

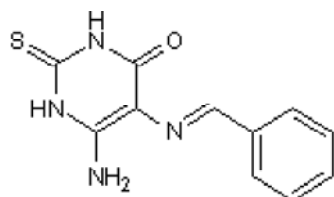
**Physical and Chemical Properties:**

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**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Chen et al** (2008) Rational design of human DNA ligase inhibitors that target cellular DNA replication and repair. *Cancer Res.* **68** 3169. PMID: 18451142.

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