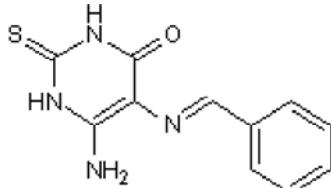


Certificate of Analysiswww.tocris.com**Product Name:** L189**Catalog No.:** 3561**Batch No.:** 2

CAS Number: 64232-83-3

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

1. PHYSICAL AND CHEMICAL PROPERTIES**Batch Molecular Formula:** C₁₁H₁₀N₄OS**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****¹H 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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Product Information

www.tocris.com**Product Name:** L189**Catalog No.:** 3561**Batch No.:** 2

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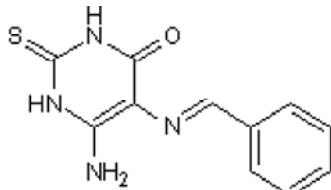
Description:

DNA ligase I, III and IV inhibitor (IC₅₀ values are 5, 9 and 5 μ M respectively) that blocks DNA binding ($K_i = 5 \mu$ M 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:Batch Molecular Formula: C₁₁H₁₀N₄OS

Batch Molecular Weight: 246.29

Physical Appearance: Off White solid

Batch Molecular Structure:**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.

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.

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