

Certificate of Analysis

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Product Name: L189

Catalog No.: 3561

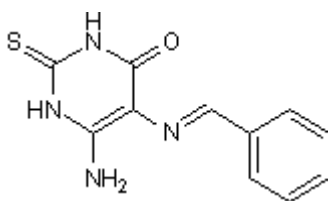
Batch No.: 1

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: C₁₁H₁₀N₄OS.¼H₂O
Batch Molecular Weight: 250.79
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Ethyl acetate:Petroleum ether [1:1])
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.68	4.22	22.34
Found	52.28	4.44	22.31

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 (IC₅₀ values are 5, 9 and 5 μM respectively) that blocks DNA binding (K_i = 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.

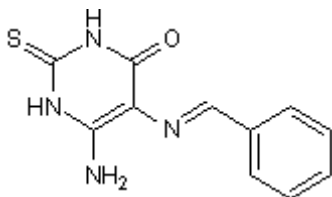
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References:

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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