

**Product Name:** Bropirimine

**Catalog No.:** 4316

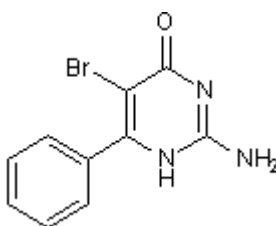
**Batch No.:** 1

CAS Number: 56741-95-8

IUPAC Name: 2-Amino-5-bromo-6-phenyl-4(3H)-pyrimidone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>8</sub>BrN<sub>3</sub>O  
**Batch Molecular Weight:** 266.09  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.33 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	45.14	3.03	15.79
Found	45.06	2.95	15.67

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

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**Description:**

Immunomodulatory and antitumor compound. Induces interferon (IFN)- $\alpha/\beta$  production; augments natural killer (NK) cell activity. Orally active.

**Physical and Chemical Properties:**

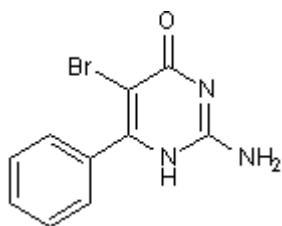
Batch Molecular Formula: C<sub>10</sub>H<sub>8</sub>BrN<sub>3</sub>O

Batch Molecular Weight: 266.09

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**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:**

**Fujioka et al** (1995) Antitumor effects of oral administration of an interferon-inducing pyrimidinone, Bropirimine, on murine renal-cell carcinoma. *Cancer Chemother.Pharmacol.* **36** 7. PMID: 7536641.

**Tei et al** (2002) In vitro antitumor activity of bropirimine against urinary bladder tumor cells. *Anticancer Res.* **22** 1667. PMID: 12168852.

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