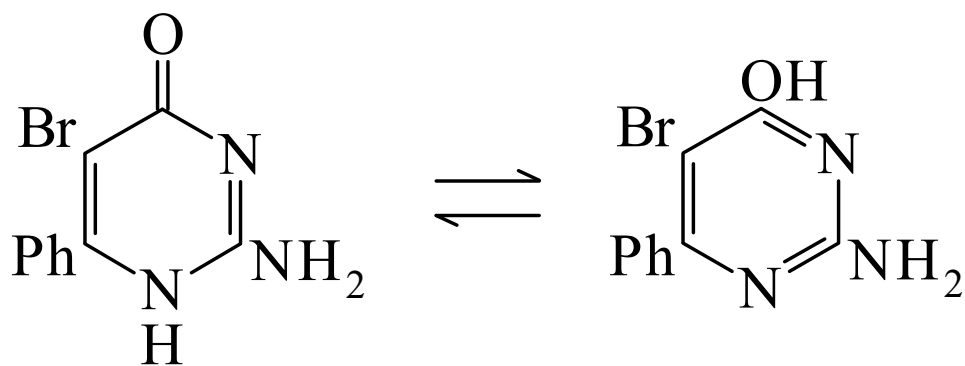




>>Entry Name: 2-Amino-5-bromo-4-hydroxy-6-phenylpyrimidine

Synonym(s): 2-Amino-5-bromo-6-phenyl-4(1H)-pyrimidinone, 9CI. 2-Amino-5-bromo-6-phenyl-4-pyrimidinol. **Bropirimine**, BAN, INN, USAN. U 54461. ABPP



CAS Registry Number: 56741-95-8

Molecular Formula: C₁₀H₈BrN₃O

Molecular Weight: 266.097

Accurate Mass: 265.005073

Percentage Composition: C 45.14%; H 3.03%; Br 30.03%; N 15.79%; O 6.01%

Use/Importance: Antineoplastic and antiviral agent, interferon-alpha inducer. Shows antifibrotic activity in animal model of lung fibrosis

Physical Description: Cryst. (EtOH aq.)

Development Status: Phase II clinical trial (1993)

Melting Point: Mp 268-270° (246-248°)

Calculated Log P Data: Log P 1.75 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) >3200 mg/kg. Exp. reprod. and teratogenic effects. Mutagenic props.

References:

- Brown, T.B. *et al.*, *J.C.S. Perkin I*, 1975, 1023, (*synth*)
Wynalda, M.A. *et al.*, *Anal. Chem.*, 1980, **52**, 1931, (*hplc*)
Stringfellow, D.A., *Prog. Cancer Res. Ther.*, 1981, **16**, 215, (*pharmacol*)
Wierenga, W., *Drugs of the Future*, 1984, **9**, 567, (*rev*)
Skulnick, H.I. *et al.*, *J. Med. Chem.*, 1985, **28**, 1864, (*synth, pharmacol*)
Aaron, C.S. *et al.*, *Mutat. Res.*, 1991, **252**, 221; 229; 239, (*tox*)
Zia, S. *et al.*, *Pharmacol. Toxicol.*, 1992, **71**, 11
Wierenga, W., *Ann. N.Y. Acad. Sci.*, 1993, **685**, 296; 301, (*rev*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, AIY850