



LKT Laboratories, Inc.

Amrinone

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## Product Information

**Product ID** A5170

**CAS No.** 60719-84-8

**Chemical Name** 5-Amino-(3,4'-bipyridin)-6(1H)-one

**Synonym** Cartonic, Inocor, Vesistol, Wincoram

**Formula** C<sub>10</sub>H<sub>9</sub>N<sub>3</sub>O

**Formula Wt.** 187.20

**Melting Point** 294-297° C(dec.)

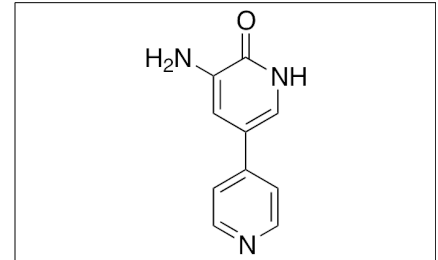
**Purity** ≥98%

**Solubility** Insoluble in water. Slightly soluble in hot acetic acid and dimethylformamide. Soluble in dilute inorganic acids.

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Amrinone is a pyridine phosphodiesterase 3 (PDE 3) inhibitor that is clinically used to treat congestive heart failure (CHF). Amrinone may be administered during cardiopulmonary bypass surgery. Amrinone exhibits positive inotropic activity, inducing vasodilation and increasing cardiac contractility through alterations in cAMP and Ca<sup>2+</sup> signaling.



**Bulk quantities available upon request**

Product ID	Size
A5170	250 mg
A5170	1 g

**References** Coons JC, McGraw M, Murali S. Pharmacotherapy for acute heart failure syndromes. *Am J Health Syst Pharm.* 2011 Jan 1;68(1):21-35. PMID: 21164062.

van der Zyppe A, Rechtman M, Majewski H. The role of cyclic nucleotides and calcium in the relaxation produced by amrinone in rat aorta. *Gen Pharmacol.* 2000 Apr;34(4):245-53. PMID: 11282218.

Hamada Y, Kawachi K, Yamamoto T, et al. Effects of single administration of a phosphodiesterase III inhibitor during cardiopulmonary bypass: comparison of milrinone and amrinone. *Jpn Circ J.* 1999 Aug;63(8):605-9. PMID: 10478810.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.