



LKT Laboratories, Inc.

Milrinone

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Product Information

Product ID M3344

CAS No. 78415-72-2

Chemical Name 5,8-Dihydro-5-methoxy-8-oxo-1,3-dioxolo[4,5-g]-quinoline-7-carboxylic acid

Synonym Corotrope, Milrila

Formula C₁₂H₉N₃O

Formula Wt. 211.22

Melting Point 264° C

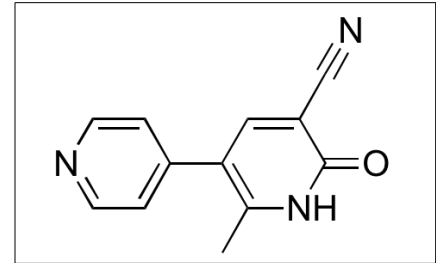
Purity ≥98%

Solubility Soluble in DMSO
(>10mg/mL).

Store Temp Ambient

Ship Temp Ambient

Description Milrinone is an inhibitor of phosphodiesterase 3 (PDE3) that exhibits vasodilatory activity; it is clinically used to treat heart failure. Milrinone increases cAMP, PKA activation, and Ca²⁺ influx, strengthening contractility. Milrinone also exhibits anticoagulant activity, inhibiting platelet aggregation by preventing Ca²⁺ release from the dense tubular system.



Bulk quantities available upon request

Product ID	Size
M3344	10 mg
M3344	50 mg
M3344	100 mg

References Hiramatsu N, Kageyama K. Anti-thrombotic effect of milrinone is caused by inhibition of calcium release from the dense tubular system in human platelets. *Acta Anaesthesiol Scand.* 2003 Jan;47(1):53-7. PMID: 12492797.

Yano M, Kohno M, Ohkusa T, et al. Effect of milrinone on left ventricular relaxation and Ca²⁺ uptake function of cardiac sarcoplasmic reticulum. *Am J Physiol Heart Circ Physiol.* 2000 Oct;279(4):H1898-905. PMID: 11009478.

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