



LKT Laboratories, Inc.

Isoproterenol Hydrochloride

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Product Information

Product ID I7259

CAS No. 51-30-9

Chemical Name

Synonym (+/-)-Isoprenaline hydrochloride, 1-(3',4'-Dihydro- xyphenyl)-2-isopropylaminoethanol Hydrochloride, N-Isopropyl-DL-noradrenaline Hydrochloride

Formula C₁₁H₁₇NO₃ · HCl

Formula Wt. 247.72

Melting Point 165.5-170° C

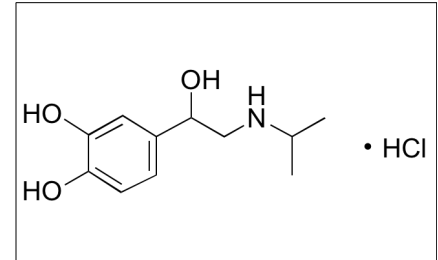
Purity ≥98%

Solubility Soluble in water (>300 mg/L), ethanol (20 mg/mL), and methanol.

Store Temp Ambient

Ship Temp Ambient

Description Isoproterenol is a non-selective β-adrenergic receptor agonist that is clinically used to treat bradycardia, heart block, and asthma; it exhibits antihypertensive, bronchodilatory, and anti-asthma activities. Isoproterenol increases systolic blood pressure and decreases diastolic blood pressure, producing an overall decrease in mean arterial pressure. The positive inotropic action of isoproterenol is often used to induce cardiac dysfunction or myocardial infarction in research models. Isoproterenol also induces relaxation of airway smooth muscle.



Bulk quantities available upon request

Product ID	Size
I7259	5 g
I7259	25 g
I7259	100 g

References Gong LL, Fang LH, Wang SB, et al. Coptisine exert cardioprotective effect through anti-oxidative and inhibition of RhoA/Rho kinase pathway on isoproterenol-induced myocardial infarction in rats. *Atherosclerosis*. 2012 May;222(1):50-8. PMID: 22387061.

Gump A, Haughney L, Fredberg J. Relaxation of activated airway smooth muscle: relative potency of isoproterenol vs. tidal stretch. *J Appl Physiol* (1985). 2001 Jun;90(6):2306-10. PMID: 11356796.

Green JF. Mechanism of action of isoproterenol on venous return. *Am J Physiol*. 1977 Feb;232(2):H152-6. PMID: 842647.

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