



LKT Laboratories, Inc.

Dobutamine Hydrochloride

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Product Information

Product ID D5607

CAS No. 49745-95-1

Chemical Name 4-[2-[[3-(4-Hydroxyphenyl)1-methylpropyl]amino]-ethyl]-1,2-benzenediol hydrochloride

Synonym Dobutrex

Formula $C_{18}H_{23}NO_3 \cdot HCl$

Formula Wt. 337.85

Melting Point 184-186°C

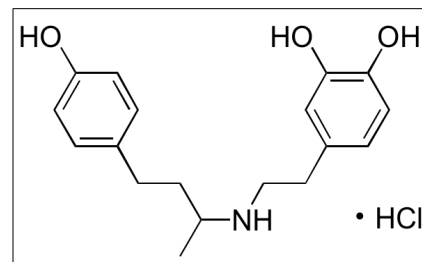
Purity ≥98%

Solubility Soluble in water, alcohol and pyridine.

Store Temp Ambient

Ship Temp Ambient

Description Dobutamine is a β_1 -adrenergic agonist that also displays weak agonist activity at β_2 - and α_1 -adrenergic receptors. Dobutamine is a positive inotrope, stimulating sympathetic nervous system activity to increase cardiac output. Dobutamine is clinically used to treat heart failure and cardiogenic shock and is used in research models to induce cardiac dysfunction. Dobutamine also decreases GABAergic, glycinergic, and glutamatergic neurotransmission to cardiac vagal neurons.



Bulk quantities available upon request

Product ID	Size
D5607	10 mg
D5607	50 mg
D5607	100 mg

References Bateman RJ, Boychuk CR, Philbin KE, et al. β adrenergic receptor modulation of neurotransmission to cardiac vagal neurons in the nucleus ambiguus. *Neuroscience*. 2012 May 17;210:58-66. PMID: 22425752.

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.

Previtali M, Camporotondo R, Repetto A, et al. Dobutamine stress echocardiography for assessing the role of dynamic intraventricular obstruction in left ventricular ballooning syndrome. *Cardiovasc Ultrasound*. 2010 Apr 9;8:11. PMID: 20380731.

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