



LKT Laboratories, Inc.

Dopamine Hydrochloride

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Product Information

Product ID D5662

CAS No. 62-31-7

Chemical Name 4-(2-Aminoethyl)-1,2-benzenediol hydrochloride

Synonym Cariosteril, Dopastat, Dynatra, Inovan, Inotropin, 3-hydroxytyramine hydrochloride

Formula $C_8H_{11}NO_2 \cdot HCl$

Formula Wt. 189.64

Melting Point 241 °C (dec)

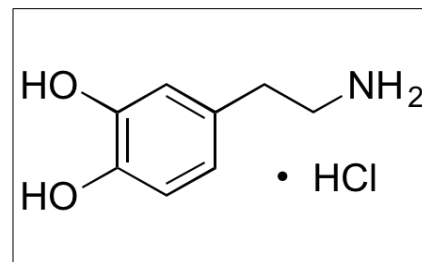
Purity ≥99%

Solubility Soluble in water (100 mM), methanol and hot ethanol (20 mg/mL). DMSO to 38 mg/mL. Practically insoluble in ether, chloroform, benzene and toluene.

Store Temp Ambient

Ship Temp Ambient

Description Dopamine is an endogenous hormone neurotransmitter that binds and activates dopamine receptors. Dopamine binding to D1/2/5 receptors increases levels of cAMP and dopamine binding to D3/4 receptors decreases levels of cAMP. Dopamine plays a role in motor control, mood, cognition, reward signaling, nausea, and arousal. Dopamine also exhibits immunomodulatory activity, activating naïve and resting T cells and inhibiting activated T cells.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D5662	5 g	\$50.90
D5662	25 g	\$132.60
D5662	100 g	\$352.80

References Cachope R, Cheer JF. Local control of striatal dopamine release. *Front Behav Neurosci.* 2014 May 23;8:188. PMID: 24904339.

Pacheco R, Contreras F, Zouali M. The dopaminergic system in autoimmune diseases. *Front Immunol.* 2014 Mar 21;5:117. PMID: 24711809.

Blier P. Neurotransmitter targeting in the treatment of depression. *J Clin Psychiatry.* 2013;74 Suppl 2:19-24. PMID: 24191974.

Sarkar C, Basu B, Chakroborty D, et al. The immunoregulatory role of dopamine: an update. *Brain Behav Immun.* 2010 May;24(4):525-8. dPMID: 19896530.

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