



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 C₈H₁₁NO₂ • HCl

Formula Wt. 189.64

Melting Point 241 °C (dec)

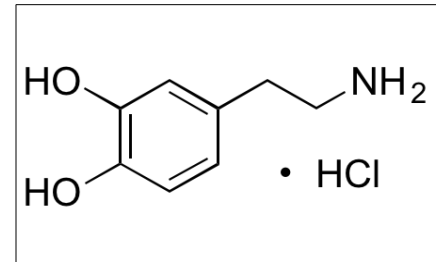
Purity ≥99%

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

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.



Bulk quantities available upon request

Product ID	Size
D5662	5 g
D5662	25 g
D5662	100 g

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.