



LKT Laboratories, Inc.

Octopamine Hydrochloride

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Product Information

Product ID O0977

CAS No. 770-05-8

Chemical Name DL- α -(Aminomethyl)-p-hydroxybenzenemethanol hydrochloride

Synonym Epirenor, Norden, Norfen, Norphen.

Formula $C_8H_{11}NO_2 \cdot HCl$

Formula Wt. 189.64

Melting Point 170° C (dec)

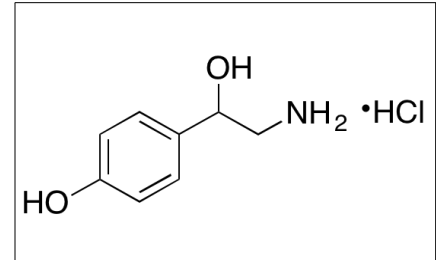
Purity $\geq 98\%$

Solubility Soluble in water, DMSO, ethanol, methanol.

Store Temp Ambient

Ship Temp Ambient

Description Octopamine is an endogenous neuromodulatory amine that can also be found in plant sources. Octopamine stimulates motor activity and muscular contractions in the foregut at low doses and decreases contractions at high doses. Octopamine also inhibits LPS-stimulated release of NO in a β -adrenergic receptor-dependent manner in astroglia. Additionally, this peptide decreases juvenile hormone degradation in female *Drosophila*.



Bulk quantities available upon request

Product ID	Size
O0977	1 g
O0977	5 g
O0977	25 g

References Rand D, Knebel D, Ayali A. The effect of octopamine on the locust stomatogastric nervous system. *Front Physiol.* 2012 Jul 20;3:288. PMID: 22934040.

D'Andrea G, D'Arrigo A, Facchinetti F, et al. Octopamine, unlike other trace amines, inhibits responses of astroglia-enriched cultures to lipopolysaccharide via a β -adrenoreceptor-mediated mechanism. *Neurosci Lett.* 2012 May 23;517(1):36-40. PMID: 22507691.

Gruntenko NE, Karpova EK, Alekseev AA, et al. Effects of octopamine on reproduction, juvenile hormone metabolism, dopamine, and 20-hydroxyecdysone contents in *Drosophila*. *Arch Insect Biochem Physiol.* 2007 Jun;65(2):85-94. PMID: 17523171.

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