



LKT Laboratories, Inc.

Synephrine

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## Product Information

**Product ID** S9753

**CAS No.** 94-07-5

**Chemical Name** 4-Hydroxy- $\alpha$ -[(methylamino)methyl]benzenemethanol

**Synonym** Analeptin, Ethaphene, Oxedrine, Parasympatol, Simpalon, Synerphrin, Synthenate

**Formula** C<sub>9</sub>H<sub>13</sub>NO<sub>2</sub>

**Formula Wt.** 167.21

**Melting Point** 184-185°C

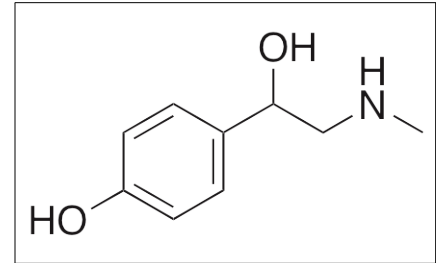
**Purity** ≥98%

**Solubility** Soluble in water (400 mg/mL).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Synephrine is an endogenous alkaloid that can also be found in citrus fruits, *Evodia*, and *Zanthoxylum*. Synephrine exhibits vasoconstrictive, anti-inflammatory, antibacterial, and gastrointestinal motility modulating activities. Synephrine acts as a positive inotrope, activating adrenergic receptors (displaying partial selectivity for  $\alpha$ -adrenergic receptors), TAAR-1 receptors, and 5-HT receptors. Synephrine decreases levels of ROS, activity of myeloperoxidase, infiltration of inflammatory cells, and expression of TNF- $\alpha$  and IL-6 in the lungs of animal models of lung injury and inflammation. Additionally, synephrine inhibits gastrointestinal motility and slows gastric emptying.



## Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
S9753	1 g	\$33.60
S9753	5 g	\$47.30
S9753	10 g	\$78.80
S9753	25 g	\$157.50

**References** Wu Q, Li R, Soromou LW, et al. p-Synephrine suppresses lipopolysaccharide-induced acute lung injury by inhibition of the NF- $\kappa$ B signaling pathway. *Inflamm Res.* 2014 Jun;63(6):429-39. PMID: 24487736.

Ozçelik B, Kartal M, Orhan I. Cytotoxicity, antiviral and antimicrobial activities of alkaloids, flavonoids, and phenolic acids. *Pharm Biol.* 2011 Apr;49(4):396-402. PMID: 21391841.

Fang YS, Shan DM, Liu JW, et al. Effect of constituents from Fructus Aurantii Immaturus and Radix Paeoniae Alba on gastrointestinal movement. *Planta Med.* 2009 Jan;75(1):24-31. PMID: 19016407.

Endoh M, Schümann HJ, Krappitz N, et al. alpha-Adrenoceptors mediating positive inotropic effects on the ventricular myocardium: some aspects of structure-activity relationship of sympathomimetic amines. *Jpn J Pharmacol.* 1976 Apr;26(2):179-90. PMID: 7694.

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