



LKT Laboratories, Inc.

## (R)-Synephrine

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### Product Information

Product ID S9755

CAS No. 614-35-7

Chemical Name

Synonym R(-)-Synephrine; D(-)-Synephrine; (-)-Oxedrine

Formula  $C_9H_{13}NO_2$

Formula Wt. 167.21

Melting Point 162-164°C

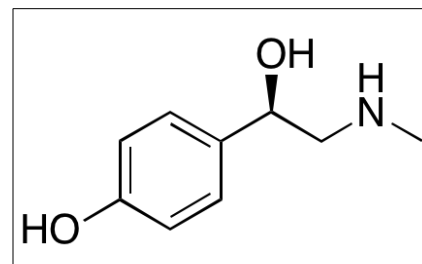
Purity ≥98%

Solubility

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 α-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-α and IL-6 in the lungs of animal models of lung injury and inflammation. Additionally, synephrine inhibits gastrointestinal motility and slows gastric emptying. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
S9755	1 g	\$33.60
S9755	5 g	\$47.30
S9755	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-κB signaling pathway. *Inflamm Res*. 2014 Jun;63(6):429-39. PMID: 24487736.

Ozcelik 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.