LKT Laboratories, Inc.

Synephrine

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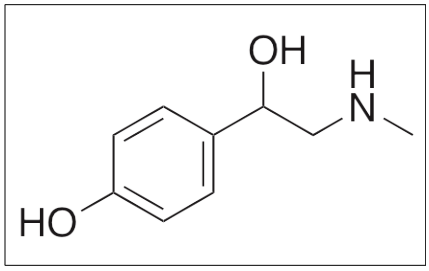
Product Information

Product ID S9753
CAS No. 94-07-5
Chemical Name 4-Hydroxy-α-[(methylamino)methyl]benzenemethanol

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

Formula $C_9H_{13}NO_2$
Formula Wt. 167.21
Melting Point 184-185°C
Purity ≥98%
Solubility Soluble in water (400 mg/mL).

Store Temp Ambient
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
S9753	1 g
S9753	5 g
S9753	10 g
S9753	25 g

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.

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.

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.