

## p-Synephrine

## Chemical Properties

CAS No. :	614-35-7
Formula:	C9H13NO2
Molecular Weight:	167.21
Storage:	Store under nitrogen, Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	p-Synephrine is a naturally occurring protoalkaloid used as a dietary supplement in the field of weight management. Mechanistically, compared to ephedrine and n-synephrine, p-synephrine exhibits weaker binding affinity for $\alpha$ -1, $\alpha$ -2, $\beta$ -1, and $\beta$ -2 adrenergic receptors at commonly used doses and does not demonstrate significant sympathomimetic activity. Furthermore, recent in vitro cellular studies have shown that p-Synephrine possesses antioxidant activity and exerts anti-inflammatory effects by downregulating the p38 MAPK/NF- $\kappa$ B signaling pathway.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 100 mg/mL (598.05 mM),Sonication is recommended. H2O: 1.6 mg/mL (9.57 mM),Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9805 mL	29.9025 mL	59.805 mL
5 mM	1.1961 mL	5.9805 mL	11.961 mL
10 mM	0.5981 mL	2.9903 mL	5.9805 mL
50 mM	0.1196 mL	0.5981 mL	1.1961 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gao HL, et al. p-Syneprine, synergistically with Gastrodin, alleviates reserpine-induced depressive pathologies by binding to MT1 receptor and activating ERK/CREB/BDNF pathway. *Phytomedicine*. 2026 Jan;150:157757.

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