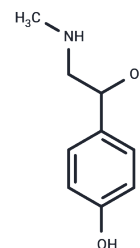


Synephrine

Chemical Properties

CAS No. :	94-07-5
Formula:	C9H13NO2
Molecular Weight:	167.21
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Synephrine (Oxedrine) is sympathetic alpha-adrenergic agonist used as a vasoconstrictor in circulatory failure, asthma, nasal congestion, and glaucoma.
Targets(IC50)	Endogenous Metabolite, Adrenergic Receptor
In vitro	Synephrine is a compound commonly used for weight loss. Synephrine has gained significant popularity as an alternative to ephedrine. Products containing bitter orange or synephrine are suspected of causing adverse cardiovascular reactions. [1] [2] Synephrine can stimulate glucose consumption (Glut4-dependent glucose uptake) by stimulating AMPK activity, regardless of insulin-stimulated PI3 kinase-Akt activity in L6 skeletal muscle cells. [3]
In vivo	LD50: Mice >1000 mg/kg (s.c.) [4]

Solubility Information

Solubility	Ethanol: 2 mg/mL (11.96 mM), Heating is recommended. DMSO: 83.33 mg/mL (498.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (19.74 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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

Stohs SJ, et al. *Int J Med Sci*, 2012, 9(7), 527-538.

Haaz S, et al. *Obes Rev*, 2006, 7(1), 79-88.

Hong NY, et al. *Biochem Biophys Res Commun*, 2012, 418(4), 720-724.

Unna K, et al. *Archiv fuer Experimentelle Pathologie und Pharmakologie*, 1951, 213, 207-234.

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