

Apovincamine

Chemical Properties

CAS No.:	4880-92-6
Formula:	C ₂₁ H ₂₄ N ₂ O ₂
Molecular Weight:	336.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Apovincamine is a vinca alkaloid and a chemical precursor of Vinpocetine, which is a derivative of Vincamine with vasodilating activity.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.972 mL	14.861 mL	29.723 mL
5 mM	0.594 mL	2.972 mL	5.945 mL
10 mM	0.297 mL	1.486 mL	2.972 mL
50 mM	0.059 mL	0.297 mL	0.594 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Solovyeva EY, Karneev AN, Chekanov AV, Baranova OA, Choi IV. [Complex application 2-ethyl-6-methyl-3-hydroxypyridine-succinate and vinpocetine in cerebrovascular disorder.]. Zh Nevrol Psikiatr Im S S Korsakova. 2017;117(5):103-108. doi: 10.17116/jnevro201711751103-108. Review. Russian. PubMed PMID: 28638040.
2. Feher G, Koltai K, Kesmarky G, Horvath B, Toth K, Komoly S, Szapary L. Effect of parenteral or oral vinpocetine on the hemorheological parameters of patients with chronic cerebrovascular diseases. Phytomedicine. 2009 Mar;16(2-3):111-7. doi: 10.1016/j.phymed.2008.10.014. Epub 2009 Jan 8. PubMed PMID: 19135345.
3. Szatmari SZ, Whitehouse PJ. Vinpocetine for cognitive impairment and dementia. Cochrane Database Syst Rev. 2003;(1):CD003119. Review. PubMed PMID: 12535455.
4. Jucker M, Bättig K, Meier-Ruge W. Effects of aging and vincamine derivatives on pericapillary microenvironment: stereological characterization of the cerebral capillary network. Neurobiol Aging. 1990 Jan-Feb;11(1):39-46. Erratum in: Neurobiol Aging 1990 Nov-Dec;11(6):675. PubMed PMID: 2325815.

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