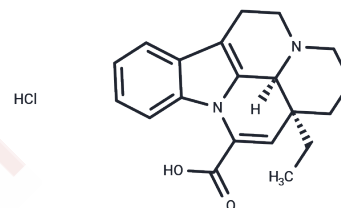


Apovincaminic acid hydrochloride salt

Chemical Properties

CAS No. :	72296-47-0
Formula:	C ₂₀ H ₂₃ ClN ₂ O ₂
Molecular Weight:	358.87
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Apovincaminic acid hydrochloride salt, the primary active metabolite of Vinpocetine (VP), is orally active and has the ability to penetrate the brain. It demonstrates a neuroprotective mechanism of action [1][2].
Targets(IC50)	Others, Drug Metabolite
In vivo	Apovincaminic acid (10 mg/kg; i.p. twice daily for 4 days) effectively attenuates behavioral deficits, significantly decreases lesion size, and reduces microglia activation [1]. Apovincaminic acid (10 mg/kg; p.o.) achieves 50% absorption compared to i.v. administration in rats [2]. Animal Model: Male Harlan-Wistar rats (300-400 g) are injected NMDA [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7865 mL	13.9326 mL	27.8652 mL
5 mM	0.5573 mL	2.7865 mL	5.573 mL
10 mM	0.2787 mL	1.3933 mL	2.7865 mL
50 mM	0.0557 mL	0.2787 mL	0.5573 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

- Nyakas C, et, al. Neuroprotective effects of vinpocetine and its major metabolite cis-apovincaminic acid on NMDA-induced neurotoxicity in a rat entorhinal cortex lesion model. *CNS Neurosci Ther.* Summer 2009;15(2):89-99.
- Pudleiner P, et, al. Study on the absorption of vinpocetine and apovincaminic acid. *Eur J Drug Metab Pharmacokinet.* Oct-Dec 1993;18(4):317-21.
- Wang M, et, al. Simultaneous Determination of Vinpocetine and its Major Active Metabolite Apovincaminic Acid in Rats by UPLC-MS/MS and its Application to the Brain Tissue Distribution Study. *J Chromatogr Sci.* 2018 Mar 1;56(3): 225-232.

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