LKT Laboratories, Inc.

Vinpocetine

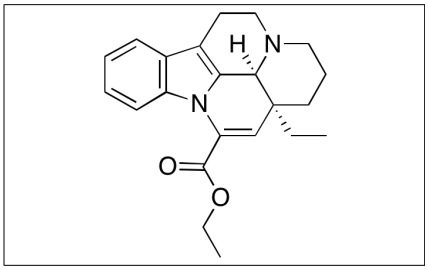
Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID V3455
CAS No. 42971-09-5
Chemical Name

Synonym

Formula $C_{22}H_{26}N_2O_2$
Formula Wt. 350.46
Melting Point 147-149°C
Purity ≥98%
Solubility Soluble in DMSO (5 mg/ml), ethanol (15 mg/ml) and DMF (3 mg/m).



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
V3455	20 mg	$110.00
V3455	100 mg	$312.60

Store Temp Ambient
Ship Temp Ambient
Description Vinpocetine is a synthetic analogue of the alkaloid apovincamine, which is isolated from the lesser periwinkle plant. It has been shown to inhibit lipopolysaccharide-induced lung inflammation in mice by targeting nuclear factor kappa B activation. Furthermore, it is known to be a safe nootropic agent and is commonly used to enhance memory and to treat various neurological diseases.

References

Hagiwara M, Endo T, Hidaka H. Effects of vinpocetine on cyclic nucleotide metabolism in vascular smooth muscle. Biochem Pharmacol. 1984 Feb 1;33(3):453-7. PMID: 6322804

Molnár P1, Erdö SL. Vinpocetine is as potent as phenytoin to block voltage-gated Na+ channels in rat cortical neurons. Eur J Pharmacol. 1995 Feb 6;273(3):303-6. PMID: 7737339

Gómez CD1, Buijs RM, Sitges M. The anti-seizure drugs vinpocetine and carbamazepine, but not valproic acid, reduce inflammatory IL-1β and TNF-α expression in rat hippocampus. J Neurochem. 2014 Sep;130(6):770-9. doi: 10.1111/jnc.12784. Epub 2014 Jun 27. PMID: 24903676

Wang H1, Zhang K2, Zhao L3, Tang J3, Gao L3, Wei Z3. Anti-inflammatory effects of vinpocetine on the functional expression of nuclear factor-kappa B and tumor necrosis factor-alpha in a rat model of cerebral ischemia-reperfusion injury. Neurosci Lett. 2014 Apr 30;566:247-51. doi: 10.1016/j.neulet.2014.02.045. Epub 2014 Mar 2. PMID: 24598438

Zhao YY1, Yu JZ, Li QY, Ma CG, Lu CZ, Xiao BG. TSPO-specific ligand vinpocetine exerts a neuroprotective effect by suppressing microglial inflammation. Neuron Glia Biol. 2011 May;7(2-4):187-97. doi: 10.1017/S1740925X12000129. Epub 2012 Jul 6. PMID: 22874716

Ruiz-Miyazawa KW, Pinho-Ribeiro FA, Zarpelon AC, et al. Vinpocetine reduces lipopolysaccharide-induced inflammatory pain and neutrophil recruitment in mice by targeting oxidative stress, cytokines, and NF-kB. Chem Biol Interact. 2015 Jul 25;237:9