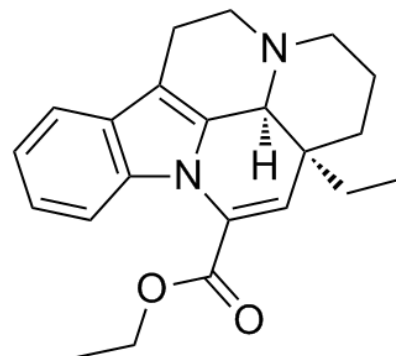


Product Name : Vinpocetine
Cat. No. : PC-43473
CAS No. : 42971-09-5
Molecular Formula : C₂₂H₂₆N₂O₂
Molecular Weight : 350.45
Target : Phosphodiesterase (PDE)
Solubility : DMSO: < 1 mg/mL



Biological Activity

Vinpocetine (Ethyl apovincaminatate) is a synthetic derivative of the vinca alkaloid vincamine, selectively inhibits **PDE1** in isolated rabbit aorta with IC₅₀ of 21 μM.

Vinpocetine inhibits IKK preventing IκB degradation and the following translocation of NF-κB to the cell nucleus.

Vinpocetine potently inhibits TNF-alpha- or LPS-induced up-regulation of proinflammatory mediators, including TNF-alpha, IL-1beta, and macrophage inflammatory protein-2, and decreases interstitial infiltration of polymorphonuclear leukocytes in mouse model of lung inflammation.

Vinpocetine demonstrates cerebral blood-flow enhancing and neuroprotective effects in vivo.

References

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Tomkinson A, et al. *Br J Pharmacol.* 1996 Aug;118(8):2131-9.

Loughney K, et al. *J Biol Chem.* 1996 Jan 12;271(2):796-806.

Jeon KI, et al. *Proc Natl Acad Sci U S A.* 2010 May 25;107(21):9795-800.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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