SZABO SCANDIC

Part of Europa Biosite

# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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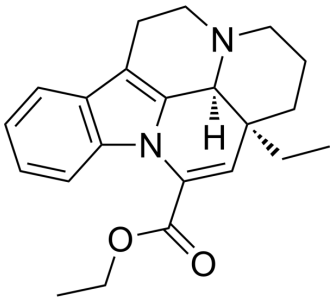
# Vinpocetine (Standard)

| | |
|---|---|
| **Cat. No.:** | HY-13295R |
| **CAS No.:** | 42971-09-5 |
| **Molecular Formula:** | $C_{22}H_{26}N_2O_2$ |
| **Molecular Weight:** | 350.45 |
| **Target:** | IKK; Phosphodiesterase (PDE); Sodium Channel |
| **Pathway:** | NF-κB; Metabolic Enzyme/Protease; Membrane Transporter/Ion Channel |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |




## BIOLOGICAL ACTIVITY

**Description**

Vinpocetine (Standard) is the analytical standard of Vinpocetine. This product is intended for research and analytical applications. Vinpocetine (Ethyl apovincaminate) is a derivative of the alkaloid Vincamine that blocks voltage-gated $Na^+$ channels. The $IC_{50}$ value of Vinpocetine on direct IKK inhibition in the cell-free system is 17.17 μM. Vinpocetine is a phosphodiesterase (PDE) inhibitor and inhibits NF-κB-dependent inflammatory responses by directly targeting IκB kinase complex (IKK), and has been widely used for the treatment of cerebrovascular disorders[1][2][3].

## REFERENCES

[1]. Kye-Im Jeon et al. Vinpocetine inhibits NF-κB-dependent inflammation via an IKK-dependent but PDE-independent mechanism PNAS May 25, 2010 vol. 107 no. 21 9795-9800

[2]. Patyar S, et al. Role of vinpocetine in cerebrovascular diseases. Pharmacol Rep. 2011;63(3):618-28.

[3]. Alexandre E. Medina Vinpocetine as a potent antiinflammatory agent PNAS June 1, 2010, Vol. 107, No. 22 9921-9922.



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