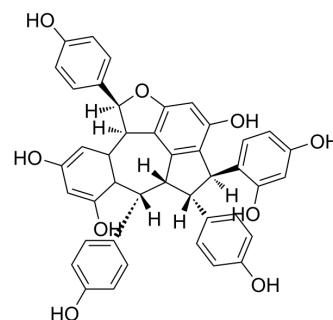


Suffruticosol A

| | |
|--------------------|---|
| Cat. No.: | HY-N11872 |
| Molecular Formula: | C ₄₂ H ₃₄ O ₉ |
| Molecular Weight: | 682.71 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Suffruticosol A is a neuroprotective agent that restores scopolamine-induced cellular neurodegenerative damage. Suffruticosol A ameliorates hippocampal cholinergic deficits and partially enhances BDNF signaling. Suffruticosol A has neuromodulatory effects in a Scopolamine (HY-N0296)-induced model, restoring memory and cognitive performance in mice. Suffruticosol A can be isolated from seeds of <i>P. lactiflora</i> ^[1] . |
| IC₅₀ & Target | BDNF ^[1] |
| In Vitro | Suffruticosol A (20 μM; 24 h) recovers cell viability and survival on human neuroblastoma SH-SY5Y cells against Scopolamine treatment (2 mM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |
| In Vivo | Suffruticosol A (4 or 15 ng, twice a week; injected into third ventricle of the brain) improves neuronal effects in Scopolamine (1.0 mg/kg; ip) induced impairments of cognition and memory in mouse model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Kim JH, et al. Enhanced neuronal activity by suffruticosol A extracted from *Paeonia lactiflora* via partly BDNF signaling in scopolamine-induced memory-impaired mice. *Sci Rep.* 2023 Jul 20;13(1):11731.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA