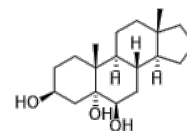


Product Name : Sipasterol
Cat. No. : PC-27500
CAS No. : 4725-51-3
Molecular Formula : C₁₉H₃₂O₃
Molecular Weight : 308.46
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

Sipasterol (5α-Androstane-3β,5,6β-triol, 5α-androst-3β,5,6β-triol, Triol) is a synthetic steroid with **neuroprotective** effect against hypoxia/reoxygenation induced neuronal injuries, through inhibition of **AMPK** signaling.

Sipasterol (5α-androstane-3β,5,6β-triol, 5α-androst-3β,5,6β-triol) dose-dependently protects cortical neurons from hypoxia/reoxygenation exposure.

Sipasterol (5α-androstane-3β,5,6β-triol, 5α-androst-3β,5,6β-triol) is neuroprotective against hypoxia/reoxygenation induced neuronal injuries through mediation of mitochondrial function and oxidative stress.

Sipasterol (5α-androstane-3β,5,6β-triol, 5α-androst-3β,5,6β-triol) notably decreased the upregulation of VCAM-1, ICAM-1 and attenuated the neutrophil adhesion to rat brain microvascular endothelial cells (RBMECs) stimulated by TNF-α by inhibiting CYLD-NF-κB pathway.

Sipasterol (5α-androstane-3β,5,6β-triol, 5α-androst-3β,5,6β-triol) inhibits TNF-α-induced degradation of IκBα and phosphorylation of NF-κBp65.

References

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Chen YQ, et al. *Neurosci Lett*. 2017 Nov 1;660:90-95.

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

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