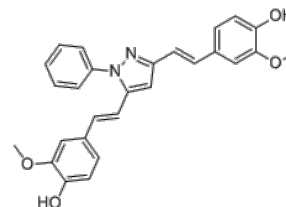


Product Name : CNB-001
Cat. No. : PC-20458
CAS No. : 1019110-87-2
Molecular Formula : C₂₇H₂₄N₂O₄
Molecular Weight : 440.50
Target : Amyloids
Solubility : 10 mM in DMSO



Biological Activity

CNB-001 is a pyrazole derivative of curcumin with neuroprotective properties, inhibits extracellular A β toxicity in hippocampal neurons with EC50 of 400 nM.

CNB-001 inhibits amyloid-induced cell death in the MC65 system with EC50 of 300 nM, CNB-001 also inhibits the accumulation of A β and APP C-terminal aggregates in MC65 cells.

CNB001 significantly suppressed IL-6, TNF-alpha, and GM-CSF production by NHBE cells.

NB-001 (1-10 μ M) suppressed the lipopolysaccharide (LPS)-induced nitric oxide (NO) production and expression of inducible NO synthase (iNOS) in primary cultured rat microglia.

CNB-001 significantly suppressed the LPS-induced phosphorylation of p38 MAPK, but not ERK and JNK.

References

Liu Y, et al. J Neurochem. 2008 May;105(4):1336-45.

Lapchak PA, et al. J Neurochem. 2011 Jan;116(1):122-31.

Panzhinskiy E, et al. J Pharmacol Exp Ther. 2014 May;349(2):248-57.

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

E-mail: tech@probechem.com