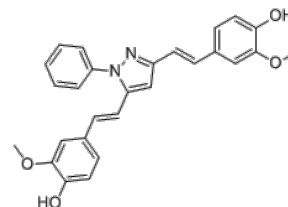


**Product Name** : CNB-001  
**Cat. No.** : PC-20458  
**CAS No.** : 1019110-87-2  
**Molecular Formula** : C<sub>27</sub>H<sub>24</sub>N<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 440.50  
**Target** : Amyloids  
**Solubility** : 10 mM in DMSO



## Biological Activity

CNB-001 is a pyrazole derivative of curcumin with neuroprotective properties, inhibits extracellular **Aβ** toxicity in hippocampal neurons with EC<sub>50</sub> of 400 nM.

CNB-001 inhibits amyloid-induced cell death in the MC65 system with EC<sub>50</sub> of 300 nM, CNB-001 also inhibits the accumulation of Aβ 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 μM) 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