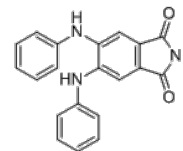


Product Name : DAPH-1
Cat. No. : PC-62186
CAS No. : 145915-58-8
Molecular Formula : C₂₀H₁₅N₃O₂
Molecular Weight : 329.359
Target : Prion
Solubility : 10 mM in DMSO



Biological Activity

DAPH-1 (CGP 52411) is a small molecule that directly inhibits **prion** protein **Sup35** prionogenesis with IC₅₀ of 0.58 μM, inhibits and reverses the formation of Aβ₄₂ fibers and reduces their toxicity to neurons in culture.

DAPH-1 inhibits prion nucleation by preventing both Head-to-Head and Tail-to-Tail intermolecular interactions.

DAPH-1 also is a potent and selective inhibitor of EGFR kinase with IC₅₀ of 1 μM, selectively inhibits both ligand-induced EGF-R and p185c-erbB2 autophosphorylation and c-fos mRNA induction.

References

Wang H, et al. *Proc Natl Acad Sci U S A*. 2008 May 20;105(20):7159-64.

Roberts BE, et al. *Nat Chem Biol*. 2009 Dec;5(12):936-46.

Buchdunger E, et al. *Proc Natl Acad Sci U S A*. 1994 Mar 15;91(6):2334-8.

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

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