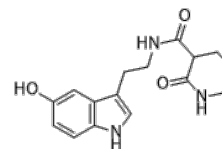


Product Name : HIOC
Cat. No. : PC-24268
CAS No. : 314054-36-9
Molecular Formula : C₁₆H₁₉N₃O₃
Molecular Weight : 301.35
Target : TrkB Receptor
Solubility : 10 mM in DMSO



Biological Activity

HIOC is a selective TrkB agonist, elicits prominent TrkB activation at 500 nM, which is comparable to BDNF, potently protects retinas from light-induced retinal degeneration (LIRD).

HIOC activates TrkB receptor and its downstream Erk1/2 in a time-dependent manner.

HIOC selectively and potently activates TrkB receptor and its downstream effector Akt in neurons.

HIOC can penetrate the BBB and selectively activate TrkB.

HIOC exerts its neuroprotective actions via TrkB receptor, mitigates retinal damage induced by bright light and exerts strong effect in promoting TrkB activation in mouse brain and retinas.

References

Shen J, et al. Proc Natl Acad Sci U S A. 2012 Feb 28;109(9):3540-5.

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

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