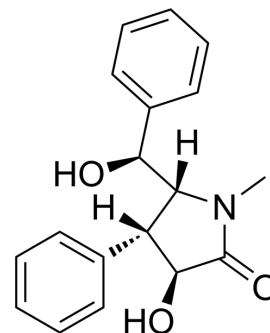


(-)-Clausenamide

Cat. No.:	HY-116753
CAS No.:	201529-58-0
Molecular Formula:	C ₁₈ H ₁₉ NO ₃
Molecular Weight:	297.35
Target:	Amyloid-β; Tau Protein
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(-)-Clausenamide is an active alkaloid isolated from the leaves of Clausena lansium (Lour.) Skeels, and improves cognitive function in both normal physiological and pathological conditions. (-)-Clausenamide inhibits β-amyloid (Aβ) toxicity, blocking neurofibrillary tangle formation by inhibiting the phosphorylation of tau protein. (-)-Clausenamide exerts a significant neuroprotective activity against Aβ ₂₅₋₃₅ . (-)-Clausenamide can be used for researching Alzheimer's disease (AD) ^[1] [2][3].
In Vitro	(-)-Clausenamide (10 and 100 μM) reverses the overload in [Ca ²⁺] _i level stimulated by Aβ ₂₅₋₃₅ , and reduces Aβ-mediated cell apoptosis in PC12 cells ^[3] . (-)-Clausenamide (10 and 100 μM) inhibits the phosphorylation of p38 MAPK, down-regulates the expression of P53 and cleaved Caspase-3 and the ratio of Bax/Bcl-2, in Aβ ₂₅₋₃₅ -treated PC12 cells ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hu JF, et al. Protective effect of (-)-clausenamide against Abeta-induced neurotoxicity in differentiated PC12 cells. *Neurosci Lett*. 2010 Oct 8;483(1):78-82.
- [2]. Chu S, Liu S, Duan W, et al. The anti-dementia drug candidate, (-)-clausenamide, improves memory impairment through its multi-target effect. *Pharmacol Ther*. 2016;162:179-187.
- [3]. Chu SF, Zhang JT. Recent advances in the study of (-)-clausenamide: chemistry, biological activities and mechanism of action. *Acta Pharm Sin B*. 2014;4(6):417-423.

Caution: Product has not been fully validated for medical applications. For research use only.

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