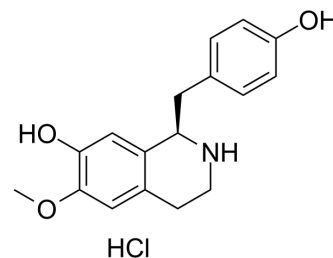


(+)-Coclaurine hydrochloride

Cat. No.:	HY-N2550A
CAS No.:	19894-19-0
Molecular Formula:	C ₁₇ H ₂₀ ClNO ₃
Molecular Weight:	321.8
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	(+)-Coclaurine ((+)-(R)-Coclaurine) hydrochloride, benzyltetrahydroisoquinoline alkaloid isolated from a variety of plant sources. (+)-Coclaurine hydrochloride has anti-aging activity ^{[1][2]} .
In Vivo	An intracerebroventricular injection of (+)-Coclaurine (d-Coclaurine; 50 µg) hydrochloride produces a slight increase in 3,4-dihydroxyphenylacetic acid level and a significant increase in homovanillic acid level in the mouse striatum. (+)-Coclaurine hydrochloride blocks postsynaptic but not presynaptic dopamine receptors in the mouse striatum ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. [1]Siva S Panda, et al. Protective effects of Aporosa octandra bark extract against D-galactose induced cognitive impairment and oxidative stress in mice. *Heliyon*. 2018 Nov 30;4(11):e00951.
- [2]. H Watanabe, et al. Effects of d-coclaurine and d-reticuline, benzyltetrahydroisoquinoline alkaloids, on levels of 3,4-dihydroxyphenylacetic acid and homovanillic acid in the mouse striatum. *J Pharmacobiodyn*. 1983 Oct;6(10):793-6.

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

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