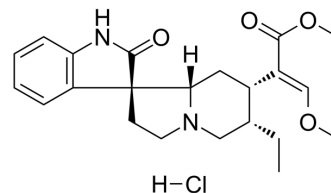


## Corynoxine hydrochloride

<b>Cat. No.:</b>	HY-N0901B
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>29</sub> ClN <sub>2</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	420.93
<b>Target:</b>	Autophagy
<b>Pathway:</b>	Autophagy
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Corynoxine hydrochloride, a tetracyclic oxindole alkaloid, is isolated from the hooks of <i>Uncaria macrophylla</i> . Corynoxine hydrochloride is a natural autophagy enhancer that promotes the clearance of alpha-synuclein via Akt/mTOR pathway <sup>[1]</sup> .								
<b>In Vitro</b>	<p>Corynoxine (6.25-25 μM; 6-12 h) increases the expression of LC3-II, an autophagy specific marker, in N2a and SH-SY5Y cells in a dose-dependent manner<sup>[1]</sup>.</p> <p>Corynoxine (25 μM; 48 h) promotes the degradation of wild type (WT) and mutant (A53T) α-syn in inducible PC12 cells via autophagy induction<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Western Blot Analysis<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>N2a and SH-SY5Y cells</td> </tr> <tr> <td>Concentration:</td> <td>6.25, 12.5, 25 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>6, 12 hours</td> </tr> <tr> <td>Result:</td> <td>Induced autophagy in neuronal cell lines.</td> </tr> </table>	Cell Line:	N2a and SH-SY5Y cells	Concentration:	6.25, 12.5, 25 μM	Incubation Time:	6, 12 hours	Result:	Induced autophagy in neuronal cell lines.
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<b>In Vivo</b>	<p>Corynoxine (100-100 mg/kg; oral gavage) exhibits prolongation of the thiopental-induced hypnosis in mice<sup>[2]</sup>.</p> <p>Corynoxine (10-100 μM for 12 h) induces autophagy in <i>drosophila</i><sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								

### REFERENCES

- [1]. Chen LL, et, al. Corynoxine, a natural autophagy enhancer, promotes the clearance of alpha-synuclein via Akt/mTOR pathway. *J Neuroimmune Pharmacol*. 2014 Jun;9(3):380-7.
- [2]. Sakakibara I, et, al. Effect of oxindole alkaloids from the hooks of *Uncaria macrophylla* on thiopental-induced hypnosis. *Phytomedicine*. 1998 Apr;5(2):83-6.

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

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