

## Corazonin

Cat. No.:	HY-P3035
CAS No.:	122929-08-2
Molecular Formula:	C <sub>62</sub> H <sub>83</sub> N <sub>17</sub> O <sub>19</sub>
Molecular Weight:	1370.42
Sequence Shortening:	{Pyr}-TFQYSRGWTN-NH2
Target:	G Protein-coupled Receptor Kinase (GRK)
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	<p>Corazonin is a highly conserved neuropeptide hormone of wide-spread occurrence in insects, serves a central regulator of caste identity and behavior in social insects. Corazonin is also preferentially expressed in workers and/or foragers from other social insect species<sup>[1][2]</sup>.</p> <p><b>Caution: Product has not been fully validated for medical applications. For research use only.</b></p>
<b>In Vitro</b>	<p>Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA</p> <p>Corazonin is produced by lateral brain neurosecretory cells projecting to the corpora cardiaca-corpora allata complex and in neurons of the ventral nerve cord.</p> <p>Corazonin evokes inward currents in <i>Xenopus</i> oocytes with an EC<sub>50</sub> value of 200 pM and leads to luminescence response from CHO cells with an EC<sub>50</sub> value of 75 pM, respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Corazonin (5.4 ng/brain; injection; single dose) suppresses expression of vitellogenin in the brain and stimulates worker-like hunting behaviors, while inhibiting gamergate behaviors, such as dueling and egg deposition in transitioning <i>Harpegnathos</i> individuals<sup>[2]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Kim YJ, et al. Corazonin receptor signaling in ecdysis initiation. *Proc Natl Acad Sci U S A*. 2004 Apr 27;101(17):6704-9.

[2]. Gospocic J, et al. The Neuropeptide Corazonin Controls Social Behavior and Caste Identity in Ants. *Cell*. 2017 Aug 10;170(4):748-759.e12.