

Product Data Sheet

Adipokinetic hormone (Gryllus bimaculatus)

 Cat. No.:
 HY-P3568

 CAS No.:
 113800-65-0

 Molecular Formula:
 $C_{43}H_{57}N_{11}O_{12}$

 Molecular Weight:
 919.98

Sequence Shortening: {Glp}-VNFSTGW-NH2

Target: Others
Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	Adipokinetic hormone Gryllus bimaculatus (Grybi-AKH) is an adipokinetic hormone that regulates energy homeostasis in
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insects by mobilizing lipid and carbohydrate from the fat body. Adipokinetic hormone Gryllus bimaculatus stimulates the locomotor activity of the two-spotted cricket. Adipokinetic hormone Gryllus bimaculatus can also be used in studies to

 $regulate\ body\ weight, induce\ weight\ loss\ and\ alleviate\ glycogen\ storage\ disorders\ in\ humans\ ^{[1][2][3]}.$

In Vivo Adipokinetic hormone Gryllus bimaculatus (100 pmol/per; topical application; single) stimulates locomotory activity via the increase of haemolymph lipid titres^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	3-day-old adult female Gryllus bimaculatus (Ensifera, Gryllidae) $^{[1]}$.
Dosage:	100 pmol/per
Administration:	Topical application onto the surface of the dorsal thorax under the wings
Result:	Resulted in a rapid increase in haemolymph lipid titres.

REFERENCES

[1]. Lorenz M W, et al. Lipid mobilization and locomotor stimulation in Gryllus bimaculatus by topically applied adipokinetic hormone[J]. Physiological Entomology, 2004, 29(2): 146-151.

[2]. Zhou YJ, et al. Effects of adipokinetic hormone and its related peptide on maintaining hemolymph carbohydrate and lipid levels in the two-spotted cricket, Gryllus bimaculatus. Biosci Biotechnol Biochem. 2018 Feb;82(2):274-284.

[3]. Bernice Z. Schacter, et al. Compositions and methods for promoting lipid mobilization, glycogen mobilization, or both, in humans. Patent WO2003066080A1.

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 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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