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## Product Data Sheet

**Cat#:** SP-100043-5  
**Description:** Adipokinetic Hormone (Apis mellifera ligustica, Bombyx mori, Heliothis zea, Manduca sexta) (AA: Glp-Leu-Thr-Phe-Thr-Ser-Ser-Trp-Gly-NH<sub>2</sub>) (MW: 921)  
**Size:** 5 mg  
**Purity:** >95%  
**Form:** Powder  
**Store:** Desiccated at -20oC.

Adipokinetic hormone (AKH) is a lipid mobilising hormone and is responsible for regulating fuel transport in the haemolymph, for redirecting energy to other processes as required by the insect. Observations of locusts showed that despite the fact that lipids are metabolised by flight muscle in order to maintain flight, which would be transported from the haemolymph, there was often still a high concentration of lipids in the haemolymph, implying that an agent may be responsible for activating lipid transport into the haemolymph and this was thought most likely to be hormonal regulation. The hormone itself is part of a larger family, often referred to as red pigment concentrating hormones (RPCH) discovered in crustaceans. The similarity between AKH and RPCH is so significant that injecting insects with RPCH induces an AKH like response and vice-versa. AKH has become an important area of study, particularly in insect crop pests and insects that act as intermediate or vector hosts for parasites that can affect humans or agricultural animals. It is believed that AKH does not only aid flight in insects, but it has also been shown that an increase in AKH can lead to stronger immune responses in locusts.

### Related Products

| GSI_Cat#    | GSI_Des   |
|-------------|---|
| SP-100043-5 | Adipokinetic Hormone (Apis mellifera ligustica, Bombyx mori, Heliothis zea, Manduca sexta) (AA: Glp-Leu-Thr-Phe-Thr-Ser-Ser-Trp-Gly-NH <sub>2</sub> ) (MW: 921) |
| SP-55334-5  | Adipokinetic Hormone; pGlu-Leu-Thr-Phe-Thr-Ser-Trp-Gly-NH <sub>2</sub> ; MW: 921.0  |
| SP-55372-5  | Adipokinetic Hormone, AKH, locust; pGlu-Leu-Asn-Phe-Thr-Pro-Asn-Trp-Gly-Thr-NH <sub>2</sub> ; MW: 1159.3  |
| SP-86555-5  | Adipokinetic Hormone, G (AKH-G) (AA: Pyr-Val-Asn-Phe-Ser-Thr-Gly-Trp-NH <sub>2</sub> ) (MW: 920.02)   |

All peptides are for in vitro research use only.

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