LKT Laboratories, Inc.

Adipokinetic Hormone, locust

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Product Information

Product ID A1331
CAS No.
Chemical Name

H-Arg-Pro-Val-Lys-Val-Tyr-Pro-Asn-Gly-Ala-Glu-Asp-Glu-Ser-Ala-Glu-Ala-Phe-Pro-Leu-Glu-Phe-OH

Synonym AKH

Formula $C_{112}H_{165}N_{27}O_{36}$
Formula Wt. 1265.70
Melting Point
Purity ≥95%
Solubility Soluble in water.

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A1331	1 mg	$88.10
A1331	2 mg	$151.20
A1331	5 mg	$264.70

Store Temp -20°C
Ship Temp Ambient

Description Adipokinetic hormone is a neuropeptide hormone found in insects that is involved in the regulation of circadian rhythms. Adipokinetic hormone also increases activity of peptidase, lipase, amylase, and polygalacturonase in the salivary glands. In brain samples treated with H2O2, this peptide exhibits antioxidative activity by decreasing lipid peroxidation and increasing membrane fluidity in a PKC/cAMP-dependent manner.

References

Metaxakis A, Tain LS, Grönke S, et al. Lowered insulin signalling ameliorates age-related sleep fragmentation in Drosophila. PLoS Biol. 2014 Apr 1;12(4):e1001824. PMID: 24690889.

Vinokurov K, Bednářová A, Tomčala A, et al. Role of adipokinetic hormone in stimulation of salivary gland activities: the fire bug Pyrrhocoris apterus L. (Heteroptera) as a model species. J Insect Physiol. 2014 Jan;60:58-67. PMID: 24269343.

Bednářová A, Kodrík D, Krishnan N. Adipokinetic hormone exerts its anti-oxidative effects using a conserved signal-transduction mechanism involving both PKC and cAMP by mobilizing extra- and intracellular Ca2+ stores. Comp Biochem Physiol C Toxicol Pharmacol. 2013 Sep;158(3):142-9. PMID: 23845878.