



Product Information

Product ID A1330
CAS No.
Chemical Name

Synonym

Formula $C_{64}H_{102}N_{10}O_{12}$
Formula Wt. 921.03
Melting Point
Purity $\geq 95\%$
Solubility Soluble in water.

pGlu-Leu-Thr-Phe-Thr-Ser-Trp-
Gly-NH₂

Bulk quantities available upon request

Product ID	Size
A1330	1 mg
A1330	2 mg
A1330	5 mg

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.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.