

 Phone:
 888-558-5227

 651-644-8424

 Fax:
 888-558-7329

 Email:
 getinfo@lktlabs.com

 Web:
 lktlabs.com

Product Information

Product ID 07116 CAS No. Chemical Name Hypocretin-2

Synonym

Formula C₁₂₃H₂₁₂N₄₄O₃₅S Formula Wt. 2899.4 Melting Point Purity ≥95% Solubility Soluble in water (1 mg/mL). Arg-Ser-Gly-Pro-Pro-Gly-Leu-Gln-Gly-Arg-Leu-Gln-Arg-Leu-Leu-Gln-Ala-Ser-Gly-Asn-His-Ala-Ala-Gly-Ile-Leu-Thr-Met-NH2

Bulk quanitites available upon request

Product IDSize071161 mg

Store Temp -20°C

Ship Temp Ambient

Description Orexin B is an endogenous peptide neurotransmitter that activates orexin-2 receptors (OX2), controlling pituitary functions and increasing secretion of luteinizing hormone (LH) and follicle-stimulating hormone (FSH). Orexin B is also involved in sleep, arousal, and feeding behaviors. This compound exhibits neuroprotective and orexigenic activities. Orexin B increases phosphorylation of Akt, increasing neuronal viability and protecting neurons against oxidative stress. Orexin B also decreases latency to eating, increases feeding behavior, decreases anxiety, and increases arousal in vivo. Orexin B stimulates insulin secretion in the pancreas of rats in a B-adrenergic receptor-dependent manner.

References Cataldi NI, Lux Lantos VA, Libertun C. Orexin A and B in vitro modify orexins receptors expression and gonadotropins secretion of anterior pituitary cells of proestrous rats. Regul Pept. 2014 Jan 10;188:25-30. PMID: 24333629.

Sokołowska P, Urbańska A, Biegańska K, et al. Orexins protect neuronal cell cultures against hypoxic stress: an involvement of Akt signaling. J Mol Neurosci. 2014 Jan;52(1):48-55. PMID: 24243084.

Tsuji T, Yamamoto T, Tanaka S, et al. Analyses of the facilitatory effect of orexin on eating and masticatory muscle activity in rats. J Neurophysiol. 2011 Dec;106(6):3129-35. PMID: 21940607.

Adeghate E, Hameed R. Mechanism of orexin B-stimulated insulin and glucagon release from the pancreas of normal and diabetic rats. Pancreas. 2011 Jan;40(1):131-6. PMID: 20871474.

Di Sebastiano AR, Yong-Yow S, Wagner L, et al. Orexin mediates initiation of sexual behavior in sexually naive male rats, but is not critical for sexual performance. Horm Behav. 2010 Aug;58(3):397-404. PMID: 20541554.

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