

Product ID L1660

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Product Information

CAS No. Chemical Name		Val-Pro-Ile-Gln-Lys-Val-Gln- Asp-Asp-Thr-Lys-Thr-Leu-Ile- Lys-Thr-Ile-Val-Thr-Arg-Ile- Asn-Asp-Ile-Ser-His-Thr-Gln- Ser-Val-Ser-Ser-Lys-Gln-Lys	
Synonym	OBGRP(22-56), human		
Formula	C ₁₇₁ H ₂₉₈ N ₅₀ O ₅₆		
Formula Wt.	3950.56		
Melting Point			
Purity	≥ 98 %	Product ID	Size
Solubility	Insoluble in water, Soluble	L1660	1 mg
Store Temp	-20°C		
Ship Temp	Ambient		
Description	Leptin is an endogenous peptide that binds leptin receptors; it is involved in feeding behavior and energy homeostasis. Leptin exhibits anorexigenic, antihypertensive, and neuroprotective activities. Leptin induces secretion of α -melanocyte-stimulating		

cription Leptin is an endogenous peptide that binds leptin receptors; it is involved in feeding behavior and energy homeostasis. Leptin exhibits anorexigenic, antihypertensive, and neuroprotective activities. Leptin induces secretion of α-melanocyte-stimulating hormone (α-MSH) and gonadotropin-releasing hormone (GnRH). In obese and hypertensive rats, leptin decreases blood pressure. This peptide also inhibits myocardial muscle contractility and modulates bone growth and resorption. Additionally, leptin may be involved in the development of atherosclerosis. In animal models of Alzheimer's disease, leptin decreases levels of tau and amyloid-β (AB), improving cognitive performance.

References Comninos AN, Jayasena CN, Dhillo WS. The relationship between gut and adipose hormones, and reproduction. Hum Reprod Update. 2014 Mar-Apr;20(2):153-74. PMID: 24173881.

Greco SJ, Bryan KJ, Sarkar S, et al. Leptin reduces pathology and improves memory in a transgenic mouse model of Alzheimer's disease. J Alzheimers Dis. 2010;19(4):1155-67. PMID: 20308782.

Zhang W, Telemaque S, Augustyniak RA, et al. Adenovirus-mediated leptin expression normalises hypertension associated with diet-induced obesity. J Neuroendocrinol. 2010 Mar;22(3):175-80. PMID: 20059648.

Taleb S, Herbin O, Ait-Oufella H, et al. Defective leptin/leptin receptor signaling improves regulatory T cell immune response and protects mice from atherosclerosis. Arterioscler Thromb Vasc Biol. 2007 Dec;27(12):2691-8. PMID: 17690315.

Martin A, David V, Malaval L, et al. Opposite effects of leptin on bone metabolism: a dose-dependent balance related to energy intake and insulin-like growth factor-I pathway. Endocrinology. 2007 Jul;148(7):3419-25. PMID: 17431002.

Moynihan AT, Hehir MP, Glavey SV, et al. Inhibitory effect of leptin on human uterine contractility in vitro. Am J Obstet Gynecol. 2006 Aug;195(2):504-9. PMID: 16647683.

Mantzoros CS. The role of leptin in human obesity and disease: a review of current evidence. Ann Intern Med. 1999 Apr 20;130 (8):671-80. PMID: 10215564.

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