

Leptin (22-56), human

Cat. No.:	HY-P1523	
CAS No.:	183598-56-3	
Molecular Formula:	C ₁₇₁ H ₂₉₈ N ₅₀ O ₅₆	
Molecular Weight:	3950.52	VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQK
Sequence Shortening:	VPIQKVQDDTKTLIKTIVTRINDISHTQSVSSKQK	
Target:	Others	
Pathway:	Others	
Storage:	Sealed storage, away from moisture	
	Powder	-80°C 2 years
		-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 100 mg/mL (25.31 mM)					
	* "≥" means soluble, but saturation unknown.					
		Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
	Preparing Stock Solutions	1 mM		0.2531 mL	1.2657 mL	2.5313 mL
	5 mM		0.0506 mL	0.2531 mL	0.5063 mL	
	10 mM		0.0253 mL	0.1266 mL	0.2531 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (0.63 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (0.63 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Leptin (22-56), human is the fragment of leptin, mediated via several isoforms of receptors (Ob-Rs).
IC₅₀ & Target	Ob-Rs ^[1]
In Vitro	Leptin (22-56), human is the fragment of leptin, inhibits corticosterone production, but shows no effect on the proliferation of cultured adrenocortical cells. Leptin (22-56) may be responsible for the direct inhibitory effect on secretion and growth of leptin on cultured rat adrenocortical cells ^[1] . Leptin (22-56) inhibits food intake, and may favour erythropoiesis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Malendowicz LK, et al. Effects of leptin and leptin fragments on corticosterone secretion and growth of cultured rat adrenocortical cells. *Int J Mol Med*. 2004 Nov;14(5):873-7.
- [2]. Stamatidis DN, et al. Elevated leptin fragments in renal failure correlate with BMI and haematopoiesis and are normalized by haemodialysis. *Clin Endocrinol (Oxf)*. 2004 Apr;60(4):434-41.
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA