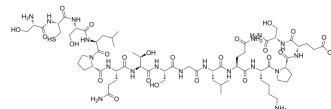


LEP(116-130)(mouse)

Cat. No.:	HY-P1027
CAS No.:	258276-95-8
Molecular Formula:	C ₆₄ H ₁₀₉ N ₁₉ O ₂₄ S
Molecular Weight:	1560.73
Sequence:	Ser-Cys-Ser-Leu-Pro-Gln-Thr-Ser-Gly-Leu-Gln-Lys-Pro-Glu-Ser-NH ₂
Sequence Shortening:	SCSLPQTSGLQKPES-NH ₂
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	H ₂ O : 50 mg/mL (32.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	0.6407 mL	3.2036 mL	6.4073 mL
			5 mM	0.1281 mL	0.6407 mL	1.2815 mL
			10 mM	0.0641 mL	0.3204 mL	0.6407 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (64.07 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	LEP(116-130)(mouse) is a synthetic leptin peptide fragment.
In Vitro	LEP-(116-130) (300 μM) is unable to inhibit AP-OB binding ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LEP-(116-130) (1 mg, i.p.) results in a reduced rate of body weight gain in the presence of increased food intake compared with vehicle-injected control mice. LEP-(116-130) significantly reduces blood glucose levels by appr 100 mg/dL. Administration of LEP-(116-130) to wild-type (+/+) C57BLKS/J-m mice for 4 or 7 days has no effect on their ability to thermoregulate ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Animal Administration ^[1]

Blood is drawn from the tail vein of each mouse 2 h before the onset of the dark period at the beginning of the study (day 0) and after 2, 4, and 6 days of treatment with 1 mg/day i.p. LEP-(116-130). Blood glucose levels are determined with a Glucometer Elite blood glucose monitor. After 4 and 7 days of treatment with 1 mg/day i.p. LEP-(116-130), sensitivity to cold is examined by placing the mice without food or water in a cold room with an ambient temperature of 4°C. Body temperature is measured with a rectal probe every hour for 4 h.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Int Med Res. 2020 Jun;48(6):300060520920062.

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REFERENCES

[1]. Grasso P, et al. Inhibitory effects of leptin-related synthetic peptide 116-130 on food intake and body weight gain in female C57BL/6J ob/ob mice may not be mediated by peptide activation of the long isoform of the leptin receptor. Diabetes. 1999 Nov;48(11):2204-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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