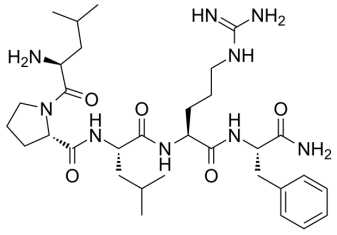
LPLRF-NH2

Cat. No.:	HY-P3593
CAS No.:	88280-21-1
Molecular Formula:	$C_{32}H_{53}N_9O_5$
Molecular Weight:	643.82
Sequence Shortening:	LPLRF-NH2
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LPLRF-NH2 is a member of RFamide peptide with anorexigenic effect. LPLRF-NH2 increases arterial blood pressure and modulates the electrical activity of brainstem neurons[1][2][3].
In Vitro	YMRF-NH2 (0.1 nM-1 μM) inhibits Forskolin-induced production of cAMP in CHO cells[4]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	LPLRF-NH2 (3-15 nmol, ICV) shows anorexigenic effect in chicks[1]. LPLRF-NH2 (25-50 nM/kg, 150 μL, i.v.) increases arterial blood pressure in rats[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Chicks[1]
Dosage:	3.0, 7.0 or 15 nmol
Administration:	Intracerebroventrical injection (ICV) injection
Result:	Decreased food intake. Increased number of c-Fos reactive cells in the paraventricular nucleus.

REFERENCES

[1]. Scheel A, et al. LPLRFamide exerts short-term anorexigenic effects that coincide with magnocellular division of the hypothalamic paraventricular nucleus activation. Gen Comp Endocrinol. 2017 May 15;246:116-119.

[2]. Barnard CS, et al. Increases in arterial blood pressure in the rat in response to a new vertebrate neuropeptide, LPLRFamide, and a related molluscan peptide, FMRFamide. Regul Pept. 1984 Apr;8(3):209-15.

[3]. Chartrel N, et al. Structure and functions of the novel hypothalamic RFamide neuropeptides R-RFa and 26RFa in vertebrates. Peptides. 2006 May;27(5):1110-20.

[4]. Hinuma S, et al. New neuropeptides containing carboxy-terminal RFamide and their receptor in mammals. Nat Cell Biol. 2000 Oct;2(10):703-8.

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

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