
Product Name	: LEAP2	Met-Thr-Pro-Phe-Trp-Arg-Gly-Val-Ser-Leu-Arg-Pro-Ile-Gly-Ala-Ser-Cys-Arg-Asp-Asp-Ser-Glu-Cys-Ile-Thr-Arg-Leu-Cys-Arg-Lys-Arg-Arg-Cys-Ser-Leu-Ser-Val-Ala-Gln-Glu (Disulfide bridge:Cys17-Cys28;Cys23-Cys33)
Cat. No.	: PC-26750	
CAS No.	: 1683582-94-6	
Molecular Formula	: C ₁₉₁ H ₃₁₆ N ₆₄ O ₅₇ S ₅	
Molecular Weight	: 4581.27	
Target	: Ghrelin Receptor (GHSR)	
Solubility	: 10 mM in DMSO	

Biological Activity

LEAP2 (Liver expressed antimicrobial peptide-2, LEAP-2) is an endogenous peptide antagonist of ghrelin receptor (**GHSR**) with IC₅₀ of 6 nM on GHSR activation in the presence of ghrelin.

LEAP2 inhibits the receptor with potency similar to that with which ghrelin activates the receptor.

LEAP2 is a noncompetitive antagonist of GHSR, likely modulating the receptor through binding to an allosteric site.

LEAP2 is highly and specifically expressed in enterocytes along the luminal surface of the villi, but not in lamina propria or crypts.

LEAP2 antagonizes ghrelin-induced growth hormone secretion and food intake in mice.

References

Ge X, et al. LEAP2 Is an Endogenous Antagonist of the Ghrelin Receptor. *Cell Metab.* 2018 Feb 6;27(2):461-469.e6.

Krause A, et al. *Protein Sci.* 2003 Jan;12(1):143-52.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com
