

Recombinant Human GP15L Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50380

Size: 10ug, 100ug

Protein Name: Protein GPR15LG (Antimicrobial peptide with 57 amino acid residues) (AP-57) (Antimicrobial peptide-57) (Colon-derived SUSD2 binding factor) (CSBF) (Protein GPR15 ligand) (Protein GPR15L) (Secreted protein C10orf99)

Synonym: GPR15LG, C10orf99, GPR15L, UNQ1833/PRO3446

UniProt ID: Q6UWK7

UniProt Link: www.uniprot.org/uniprotkb/Q6UWK7/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 81 AA

Molecular Weight: 9 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRLLVLSSLLCILLLCFSIFSTEGKRRPAKAWSGRRTRLCCHRVSPNSTNLKGHHVRLCKPCKLEPE
PRLWVVP GALPQV

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Protein GPR15LG (Antimicrobial peptide with 57 amino acid residues) (AP-57) (Antimicrobial peptide-57) (Colon-derived SUSD2 binding factor) (CSBF) (Protein GPR15 ligand) (Protein GPR15L) (Secreted protein C10orf99) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Highly cationic protein that has multiple functions. Acts as a chemotactic factor that mediates lymphocytes recruitment to epithelia through binding and activation of the G protein-coupled receptor GPR15 (PubMed:28900043, PubMed:28936214). May be a tumor suppressor; together with SUSD2 has a growth inhibitory effect on colon cancer cells which includes G1 cell cycle arrest (PubMed:25351403). May regulate keratinocyte proliferation (PubMed:29872130). In addition, through activation of Mas-related G protein-coupled receptors (MRGPRs) contributes to pruritogenesis by activating itch-selective sensory neurons and mast cells degranulation (PubMed:35704588).; Has antimicrobial activity against Gram-positive bacteria, including *Staphylococcus aureus* and *Actinomyces spec.*, and *Mycoplasma hominis* and lentivirus (PubMed:25585381).

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.