

Active GPR15L, Human Recombinant

02/21

CATALOG NO:	P1708-25 25 µg
ALTERNATE NAMES:	Antimicrobial peptide-57, AP-57, Colon-derived SUSD2 binding factor, CSBF, UNQ1833/PRO3446; Protein GPR15L; Secreted protein C10orf99
MOL. WT.	6.5 kDa
NCBI GENE ID:	387695
ACCESSION NO.:	Q6UWK7
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses
SOURCE:	<i>E.coli</i>
AMINO ACID SEQUENCE:	KRRPAKAWSG RRTRLCCHRV PSPNSTNLKG HHVRLCKPCK LEPEPRLWVV PGALPQV
FORM:	Lyophilized protein powder
RECONSTITUTION:	Reconstitute to desired concentration using sterile water.
BIOLOGICAL ACTIVITY:	Determined by its ability to chemoattract human PBMCs in a transwell-based migration assay.
STORAGE CONDITIONS:	Store at -20 °C to -80 °C. After reconstitution, divide into small aliquots and store at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	GPR15L is a newly identified ligand for GPR15, a member of the G protein-coupled receptor (GPCR) family. Upon ligation, GPR15L acts as a potent chemoattractant for GPR15-expressing T cells and together they mediate lymphocyte recruitment to the large intestine and skin. GPR15L is constitutively expressed by colon epithelial cells where its expression is minimally altered by intestinal inflammation. Conversely, GPR15L is nearly undetectable in adult epidermis but highly upregulated during wound healing and inflammation, particularly in psoriasis. Significant expression of GPR15L is also seen in additional mucosal epithelial cells, including those of the stomach, esophagus, and urinary tract. GPR15L was first identified as an antimicrobial peptide (AMP) due to its broad spectrum of antimicrobial activity, a property shared with many chemokines. GPR15L binds to an additional receptor, SUSD2, and early studies have indicated that both are downregulated in colon cancer tissue resulting in inhibited colon cancer growth.

RELATED PRODUCTS:

CXCL16, Human Recombinant (Cat. No. 7130)
CCL16, Human Recombinant (Cat. No. 4349)
Recombinant Human pIgR Protein (Cat. No. P1701)
CXCL4, Human Recombinant (Cat. No. 7346)
Eotaxin-2/CCL24, Human Recombinant (Cat. No. 4497)

FOR RESEARCH USE ONLY! Not to be used on humans.