

Recombinant Human GRPR protein, His & T7-tagged

Cat. No. GRPR-7835H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRPR aa. (Met1~Lys114 (Accession # P30550)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys114
Description	Gastrin-releasing peptide (GRP) regulates numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation and is a potent mitogen for neoplastic tissues. The effects of GRP are mediated through the gastrin-releasing peptide receptor. This receptor is a glycosylated, 7-transmembrane G-protein coupled receptor that activates the phospholipase C signaling pathway. The receptor is aberrantly expressed in numerous cancers such as those of the lung, colon, and prostate. An individual with autism and multiple exostoses was found to have a balanced translocation between chromosome 8 and a chromosome X breakpoint located within the gastrin-releasing peptide receptor gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.3kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.0.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

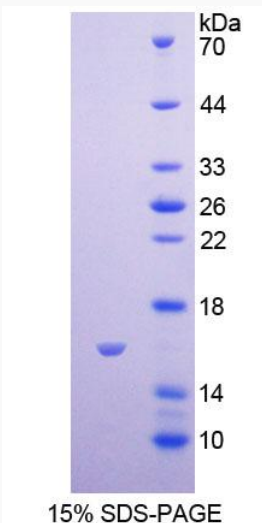
GENE INFORMATION

Gene Name	GRPR gastrin releasing peptide receptor [Homo sapiens (human)]
Official Symbol	GRPR
Synonyms	PRH2; proline rich protein HaeIII subfamily 2; Pr; pr1/Pr2; PRP-1/PRP-2; salivary acidic proline-rich phosphoprotein 1/2; acidic salivary proline-rich protein, HaeIII type, 2; parotid acidic protein; parotid double-band protein; parotid proline-rich protein 1/2; protein C

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Gene ID	2925
mRNA Refseq	NM_005314.2
Protein Refseq	NP_005305.1
UniProt ID	P30550
SDS-PAGE	 15% SDS-PAGE