

Recombinant Full Length Human GRPR Protein, GST-tagged

Cat. No. GRPR-5610HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GRPR full-length ORF (NP_005305.1, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	384 amino acids
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. [provided by RefSeq
Molecular Mass	69.6 kDa
AA Sequence	MALNDCFLLNLEVDHFMHCNISSHSADLPVNDDWSHPGILYVIPAVYGVIIIGLIGNIT LIKIFCTVKSMRNVPNLFISSLALGDLLLLITCAPVDASRYLADRWLFGRIGCKLIPFIQL TSVGVSFVFTLTALSADRYKAIVRPMDIQASHALMKICLKAAFIWIISMLLAIPAVFSDL

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HPFHEESTNQT FISCAPYPHSNELHPKIHSMASFLVFYVIPLSIISVYYYFIAKNLIQSAY
 NLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCWLPNHVIYLYRSYHYSEVDTSMLH
 FVTSICARLLAFTNSCVNPFALYLLSKSFRKQFNTQLCCQPGLIIRSHSTGRSTTCM
 TSLKSTNPSVATFSLINGNICHERYV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name GRPR gastrin-releasing peptide receptor [Homo sapiens]

Official Symbol GRPR

Synonyms GRPR; gastrin-releasing peptide receptor; GRP-R; GRP-preferring bombesin receptor;

Gene ID 2925

mRNA Refseq NM_005314

Protein Refseq NP_005305

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MIM	305670
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UniProt ID	P30550
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