

Recombinant Human GRPR

Cat. No. GRPR-28627TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GRPR (amino acids 1-384) with N terminal proprietary tag; Predicted MWt 68.31 kDa including the tag.
Species	Human
Source	Wheat Germ
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.
Molecular Weight	68.310kDa inclusive of tags
Tissue specificity	Highly expressed in pancreas. Also expressed in stomach, adrenal cortex and brain.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MALNDCFLLNLEVDHFMHCNIISSHSADLPVNDDWSHPGIL YVIPAVYGVIIIGLIGNI TLIKIFCTVKSMRNVPNLFIS SLALGDLIIIITCAPVDASRYLADRWLFGRIKGLIPFI Q LTVSGVSVFTLTALSADRYKAIVRPMDIQASHALMKICLK AAFIWIISMLLAPEAVF SDLHPFHEESTNQTFISCAPYP HSNEHPKIHSMASFLVFYVIPLSIISVYYYFIAKNLI QS AYNLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCWLPN HVIYLYRSYHYSEVD TSMLHFVTSICARLLAFTNSCVNPF ALYLLSKSFRKQFNTQLLCCQPGLIIRSHSTGR STTCMTS LKSTNPSVATFSLINGNICHERYV
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	GRPR gastrin-releasing peptide receptor [Homo sapiens]
Official Symbol	GRPR
Synonyms	GRPR; gastrin-releasing peptide receptor;
Gene ID	2925
mRNA Refseq	NM_005314
Protein Refseq	NP_005305

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MIM	305670
Uniprot ID	P30550
Chromosome Location	Xp22.2
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem;
Function	G-protein coupled peptide receptor activity; bombesin receptor activity; neuropeptide binding; receptor activity; signal transducer activity;

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