

## Recombinant Human GRPR

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

### SPECIFICATION

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

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 305670                                                                                                                                                                                                                                                                                         |
| <b>Uniprot ID</b>          | P30550                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | Xp22.2                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | G-protein coupled peptide receptor activity; bombesin receptor activity; neuropeptide binding; receptor activity; signal transducer activity;                                                                                                                                                  |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA