

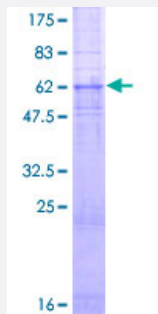
Full-Length

GRPR (Human) Recombinant Protein (P01)

Catalog # H00002925-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GRPR full-length ORF (NP_005305.1, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MALNDCFLNLEVDHFMHCNISSHSADLPVNDDWSHPGILYVIPAVYGVIIIGLIGNITLIKIFCTVKS
MRNVPNLFISLALGDLLLLITCAPVDASRYLADRWLFGRI GCKLIPFIQLTSVGVSFVTLTALSADR
YKAIVRPMDIQASHALMKICLKAAFWIISMLLAPEAVFSDLHPFHEESTNQTFISCAPYPHSNELHP
KIHSMASFLVFYVIPLSIISVYYYFIAKNLIQSAYNLPVEGNIHVKKQIESRKRLAKTVLVFVGLFAFCW
LPNHVIMLYRSYHYSEVDTSMLHFVTSICARLLAFTNSCVNPFALYLLSKSFRKQFNTQLLCCQPGLI
IRSHSTGRSTTCMTSLKSTNPSVATFSLINGNICHERYV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

69.6

Interspecies Antigen Sequence

Mouse (90); Rat (90)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

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

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

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

Applications

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

Gene Info — GRPR

Entrez GeneID[2925](#)**GeneBank Accession#**[NM_005314.2](#)**Protein Accession#**[NP_005305.1](#)**Gene Name**

GRPR

Gene Alias

-

Gene Description

gastrin-releasing peptide receptor

Omim ID[305670](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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]

Other Designations

GRP-preferring bombesin receptor|OTTHUMP00000022983

Pathway

- [Calcium signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Alzheimer disease](#)
- [Autistic Disorder](#)
- [Cerebral Amyloid Angiopathy](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Neuroblastoma](#)
- [Panic Disorder](#)
- [Phobic Disorders](#)
- [Schizophrenia](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)