

HDFP854

---

**Product Information**

<b>Product SKU:</b>	HDFP854	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	GRPR	<b>Tag:</b>	C-Flag&Strep Tag		

---

**Additional Information**

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	P30550
<b>Molecular Weight:</b>	The human full length GRPR-Strep protein has a MW of 43.2 kDa		

---

**Protein Information**

**Background:** 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.

**Synonyms:** BB2; BB2R; BRS2

**Protein Description:** Human GRPR-Strep full length protein-synthetic nanodisc

**Formulation:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Protein Pathways:** Calcium signaling pathway, Neuroactive ligand-receptor interaction.

**Protein Families:** Druggable Genome, GPCR, Transmembrane.

**Usage:** Research use only

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.