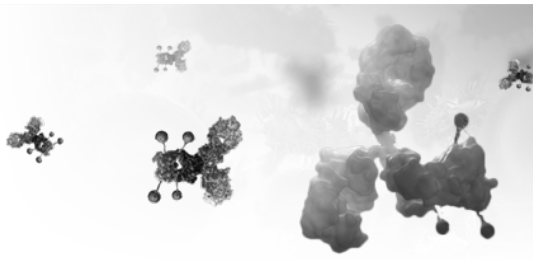

Human GRPR peptide (DAG-P0596)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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, Jul 2008]
Specificity	Highly expressed in pancreas. Also expressed in stomach, adrenal cortex and brain.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	GRPR gastrin-releasing peptide receptor [Homo sapiens (human)]
Official Symbol	GRPR
Synonyms	GRPR; gastrin-releasing peptide receptor; BB2; GRP-R; bombesin receptor 2; GRP-preferring bombesin receptor;

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Entrez Gene ID	2925
mRNA Refseq	NM_005314.2
Protein Refseq	NP_005305.1
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; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem; GPCRs, Other, organism-specific biosystem; Gastrin-CREB signalling pathway via PKC and MAPK, organism-s
Function	G-protein coupled peptide receptor activity; bombesin receptor activity;

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