RXFP1 Blocking Peptide (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	RXFP1, Blocking Peptide
Full Product Name	RXFP1 Blocking Peptide (C-term)
Product Gene Name	RXFP1 blocking peptide
Product Synonym Gene Name	LGR7
Product Synonym Names	Relaxin receptor 1; Leucine-rich repeat-containing G-protein coupled receptor 7; Relaxin family peptide receptor 1; RXFP1; LGR7
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 700-713 of HUMAN RXFP1
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RXFP1 peptide (MBS9228718) is used for blocking the activity of RXFP1 antibody (MBS9212275)
Molecular Weight	75,272 Da
OMIM	606654
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the brain, kidney, testis, placenta, uterus, ovary, adrenal, prostate, skin and heart. Not detected in spleen.
Related Product Information for RXFP1 blocking peptide	Receptor for relaxins. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. Binding of the ligand may also activate a tyrosine kinase pathway that inhibits the activity of a phosphodiesterase that degrades cAMP.
Other Notes	Small volumes of RXFP1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RXFP1 purchase	MBS9228718 is a blocking peptide targeting RXFP1. Also known as RXFP1 Blocking Peptide (C-term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RXFP1. It may not necessarily be applicable to this product.

NCBI GI #	85986601
NCBI GeneID	59350
NCBI Accession #	NP_067647.2
UniProt Primary Accession #	Q9HBX9
UniProt Secondary Accession #	Q2M215; Q3KU24; Q3KU25; Q3KU26; B4DHD1; B4DTV2
UniProt Related Accession #	Q9HBX9
GenBank Nucleotide #	NM_021634.3
NCBI Official Full Name	relaxin receptor 1 isoform 1
NCBI Official Synonym Full Names	relaxin/insulin like family peptide receptor 1

NCBI Official Symbol	RXFP1
NCBI Official Synonym Symbols	LGR7; RXFPR1
UniProt Protein Name	Relaxin receptor 1
UniProt Synonym Protein Names	Leucine-rich repeat-containing G-protein coupled receptor 7; Relaxin family peptide receptor 1
Protein Family	Relaxin receptor
UniProt Gene Name	RXFP1
UniProt Synonym Gene Names	LGR7
UniProt Entry Name	RXFP1_HUMAN
NCBI Protein Information	relaxin receptor 1
NCBI Summary for RXFP1	This gene encodes a member of the leucine-rich repeat-containing subgroup of the G protein-coupled 7-transmembrane receptor superfamily. The encoded protein plays a critical role in sperm motility, pregnancy and parturition as a receptor for the protein hormone relaxin. Decreased expression of this gene may play a role in endometriosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for RXFP1	RXFP1: Receptor for relaxins. The activity of this receptor is mediated by G proteins leading to stimulation of adenylate cyclase and an increase of cAMP. Binding of the ligand may also activate a tyrosine kinase pathway that inhibits the activity of a phosphodiesterase that degrades cAMP. Belongs to the G-protein coupled receptor 1 family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Membrane protein, integral; GPCR, family 1; Receptor, GPCR Chromosomal Location of Human Ortholog: 4q32.1 Cellular Component: plasma membrane Molecular Function: G-protein coupled receptor activity; protein binding Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger
Research Articles on RXFP1	**1.** RXFP1 gene expression was dysregulated in the anterior cingulate of bipolar patients.
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