Mglur8 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	mGluR8, Blocking Peptide
Full Product Name	mGluR8 Blocking Peptide
Product Gene Name	mGluR8 blocking peptide
Product Synonym Names	FLJ41058; GLUR8; Glutamate receptor metabotropic 8; GPRC1H; GRM8; GRM8_HUMAN; Metabotropic glutamate receptor 8; MGC126724; mGlu8; mGluR8
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 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
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	mGluR8 peptide (MBS9626485) is used for blocking the activity of mGluR8 antibody (MBS9607772)
Molecular Weight	101,741 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (126078652..126892428, complement). Location: 7q31.3-q32.1
OMIM	601116
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for mGluR8 blocking peptide	Blocking/Control
Related Product Information for mGluR8 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of mGluR8 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 mGluR8 purchase	MBS9626485 is a blocking peptide targeting mGluR8.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for mGluR8. It may not necessarily be applicable to this product.

NCBI GI #	187960067
NCBI GeneID	2918
NCBI Accession #	NP_000836.2
UniProt Primary Accession #	O00222

UniProt Secondary Accession #	O15493; O95945; O95946; Q3MIV9; Q52M02; Q6J165; A4D0Y3; B0FZ74; B0M0L0
UniProt Related Accession #	O00222
GenBank Nucleotide #	NM_000845.2
NCBI Official Full Name	metabotropic glutamate receptor 8 isoform a
NCBI Official Synonym Full Names	glutamate receptor, metabotropic 8
NCBI Official Symbol	GRM8
NCBI Official Synonym Symbols	GLUR8; mGlu8; GPRC1H; MGLUR8
UniProt Protein Name	Metabotropic glutamate receptor 8
Protein Family	Metabotropic glutamate receptor
UniProt Gene Name	GRM8
UniProt Synonym Gene Names	GPRC1H; MGLUR8; mGluR8
UniProt Entry Name	GRM8_HUMAN
NCBI Protein Information	metabotropic glutamate receptor 8
NCBI Summary for mGluR8	L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for mGluR8	mGluR8: Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. Belongs to the G-protein coupled receptor 3 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral; GPCR, family 3 Chromosomal Location of Human Ortholog: 7q31.3-q32.1 Cellular Component: presynaptic membrane; integral to plasma membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; group III metabotropic glutamate receptor activity; glutamate receptor activity Biological Process: negative regulation of cAMP biosynthetic process; regulation of synaptic transmission, glutamatergic; visual perception; sensory perception of smell; metabotropic glutamate receptor, adenylate cyclase inhibiting pathway
Research Articles on mGluR8	**1.** Glutamate acts as a partial inverse agonist to metabotropic glutamate receptor with a single amino acid mutation in the transmembrane domain
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