5ht1a Receptor Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	5HT1A Receptor (HTR1A), Blocking Peptide
Full Product Name	5HT1A Receptor Blocking Peptide
Product Gene Name	HTR1A blocking peptide
Product Synonym Gene Name	HTR1A
Product Synonym Names	5 HT 1A; 5 HT receptor 1A; 5 HT1A; 5 HT1A receptor; 5 hydroxytryptamine (serotonin) receptor 1A; 5 hydroxytryptamine (serotonin) receptor 1A G protein coupled; 5 hydroxytryptamine receptor 1A; 5-HT-1A; 5-HT1A; 5-hydroxytryptamine receptor 1A; 5HT 1A; 5HT 1A receptor; 5HT receptor 1A; 5HT1a; 5HT1A_HUMAN; ADRB2RL1; ADRBRL1; G 21; G protein coupled receptor; G-21; Gpcr 18; Gpcr18; Guanine nucleotide binding regulatory protein-coupled receptor; Htr1a; PFMCD; Serotonin 1A receptor; Serotonin 5HT1A receptor; Serotonin receptor 1A
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	5HT1A Receptor peptide (MBS9614920) is used for blocking the activity of 5HT1A Receptor antibody (MBS9600367)
Molecular Weight	46,107 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (63255875..63258119, complement). Location: 5q11.2-q13
OMIM	109760
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 HTR1A blocking peptide	Blocking/Control
Related Product Information for HTR1A 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 HTR1A 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 HTR1A purchase	MBS9614920 is a blocking peptide targeting HTR1A. Also known as 5HT1A Receptor Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR1A. It may not necessarily be applicable to this product.

NCBI GI #	55956923

NCBI GeneID	3350
NCBI Accession #	NP_000515.2
UniProt Primary Accession #	P08908
UniProt Secondary Accession #	Q6LAE7
UniProt Related Accession #	P08908
GenBank Nucleotide #	NM_000524.3
NCBI Official Full Name	5-hydroxytryptamine receptor 1A
NCBI Official Synonym Full Names	5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled
NCBI Official Symbol	HTR1A
NCBI Official Synonym Symbols	G-21; 5HT1a; PFMCD; 5-HT1A; 5-HT-1A; ADRBRL1; ADRB2RL1
UniProt Protein Name	5-hydroxytryptamine receptor 1A
UniProt Synonym Protein Names	G-21; Serotonin receptor 1A
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR1A
UniProt Synonym Gene Names	ADRB2RL1; ADRBRL1; 5-HT-1A; 5-HT1A
UniProt Entry Name	5HT1A_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 1A; 5-HT1a receptor; guanine nucleotide-binding regulatory protein-coupled receptor
NCBI Summary for HTR1A	This gene encodes a G protein-coupled receptor for 5-hydroxytryptamine (serotonin), and belongs to the 5-hydroxytryptamine receptor subfamily. Serotonin has been implicated in a number of physiologic processes and pathologic conditions. Inactivation of this gene in mice results in behavior consistent with an increased anxiety and stress response. Mutation in the promoter of this gene has been associated with menstrual cycle-dependent periodic fevers. [provided by RefSeq, Jun 2012]
UniProt Comments for HTR1A	5-HT(1A): This is one of the several different receptors for 5- hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. The activity of this receptor is mediated by G proteins that inhibit adenylate cyclase activity. Belongs to the G-protein coupled receptor 1 family. 5-hydroxytryptamine receptor subfamily. HTR1A sub-subfamily. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 5q11.2-q13 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: protein binding; serotonin receptor activity Biological Process: vasoconstriction; G-protein coupled receptor protein signaling pathway; cell proliferation; behavioral fear response; serotonin receptor, adenylate cyclase inhibiting pathway; regulation of serotonin secretion; positive regulation of cell proliferation; regulation of dopamine metabolic process; regulation of hormone secretion; serotonin metabolic process; serotonin receptor signaling pathway; regulation of behavior Disease: Periodic Fever, Menstrual Cycle-dependent
Research Articles on HTR1A	**1.** Report reduced brain HTR1A receptor availability in schizophrenic patients treated with aripiprazole.
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