5ht6 Receptor Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	5HT6 Receptor (HTR6), Blocking Peptide
Full Product Name	5HT6 Receptor Blocking Peptide
Product Gene Name	HTR6 blocking peptide
Product Synonym Gene Name	HTR6
Product Synonym Names	5 HT 6; 5 HT6; 5 HT6R; 5 hydroxytryptamine (serotonin) receptor 6 G protein coupled; 5 hydroxytryptamine 6 receptor; 5 hydroxytryptamine receptor 6; 5-HT-6; 5-HT6; 5-hydroxytryptamine receptor 6; 5HT 6; 5HT6R_HUMAN; HTR 6; Htr6; Serotonin receptor 6
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	5HT6 Receptor peptide (MBS9623679) is used for blocking the activity of 5HT6 Receptor antibody (MBS9604962)
Molecular Weight	46,954 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (19991780..20006055). Location: 1p36-p35
OMIM	601109
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 HTR6 blocking peptide	Blocking/Control
Related Product Information for HTR6 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 HTR6 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 HTR6 purchase	MBS9623679 is a blocking peptide targeting HTR6. Also known as 5HT6 Receptor Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR6. It may not necessarily be applicable to this product.

NCBI GI #	4504545
NCBI GeneID	3362
NCBI Accession #	NP_000862.1

UniProt Primary Accession #	P50406
UniProt Secondary Accession #	Q13640; Q5TGZ1
UniProt Related Accession #	P50406
GenBank Nucleotide #	NM_000871.2
NCBI Official Full Name	5-hydroxytryptamine receptor 6
NCBI Official Synonym Full Names	5-hydroxytryptamine (serotonin) receptor 6, G protein-coupled
NCBI Official Symbol	HTR6
NCBI Official Synonym Symbols	5-HT6; 5-HT6R
UniProt Protein Name	5-hydroxytryptamine receptor 6
UniProt Synonym Protein Names	Serotonin receptor 6
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR6
UniProt Synonym Gene Names	5-HT-6; 5-HT6
UniProt Entry Name	5HT6R_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 6; 5-HT-6; serotonin receptor 6
NCBI Summary for HTR6	This gene encodes a protein that belongs to the seven-transmembrane G protein-coupled receptor family of proteins. The encoded protein couples with the Gs alpha subunit and stimulates adenylate cyclase to activate the cyclic AMP-dependent signaling pathway. This receptor is thought to regulate cholinergic neuronal transmission in the brain. Several antidepressants and antipsychotic drugs have a high affinity for this receptor. [provided by RefSeq, Aug 2013]
UniProt Comments for HTR6	5-HT(6): 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 stimulate adenylate cyclase. It has a high affinity for tricyclic psychotropic drugs. Belongs to the G-protein coupled receptor 1 family. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1p36-p35 Cellular Component: integral to plasma membrane; dendrite; plasma membrane; cilium Molecular Function: protein binding; serotonin receptor activity; histamine receptor activity Biological Process: response to drug; positive regulation of dopamine secretion; G-protein signaling, coupled to cyclic nucleotide second messenger; synaptic transmission; cerebral cortex cell migration; negative regulation of glutamate secretion; negative regulation of gamma-aminobutyric acid secretion; negative regulation of acetylcholine secretion; learning; positive regulation of TOR signaling pathway; response to estradiol stimulus; serotonin receptor signaling pathway; positive regulation of gamma-aminobutyric acid secretion
Research Articles on HTR6	**1.** When expressed in pyramidal neuron progenitors, serotonin receptor 5-HT6 transgene decreases the migration speed of cortical pyramidal neurons, thereby affecting a fundamental step in the assembly of neural circuits.
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