5ht3a Receptor Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	5HT3A receptor (HTR3A), Blocking Peptide
Full Product Name	5HT3A receptor Blocking Peptide
Product Gene Name	HTR3A blocking peptide
Product Synonym Gene Name	HTR3A
Product Synonym Names	5 HT 3; 5 HT3 receptor; 5 HT3A; 5 HT3A receptor; 5 HT3RA; 5 hydroxytryptamine (serotonin) receptor 3A; 5-HT-3; 5-HT3-A; 5-HT3A; 5-HT3R; 5-hydroxytryptamine receptor 3; 5-hydroxytryptamine receptor 3A; 5HT receptor; 5HT3 serotonin receptor; 5HT3A_HUMAN; 5HT3R; HTR3; Htr3a; Serotonin receptor 3A; Serotonin-gated ion channel receptor 3a; Serotonin-gated ion channel receptor
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.
Molecular Weight	55,280 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (113845797..113861035). Location: 11q23.1
OMIM	182139
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 HTR3A blocking peptide	Blocking/Control
Related Product Information for HTR3A 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 HTR3A 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 HTR3A purchase	MBS9623676 is a blocking peptide targeting HTR3A. Also known as 5HT3A receptor Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR3A. It may not necessarily be applicable to this product.

NCBI GI #	253735700
NCBI GeneID	3359
NCBI Accession #	NP_000860.2

UniProt Primary Accession #	P46098
UniProt Secondary Accession #	O60854; Q7KZM7; Q99918; Q9BSZ9; B4DSY6; G5E986
UniProt Related Accession #	P46098
GenBank Nucleotide #	NM_000869.5
NCBI Official Full Name	5-hydroxytryptamine receptor 3A isoform b
NCBI Official Synonym Full Names	5-hydroxytryptamine (serotonin) receptor 3A, ionotropic
NCBI Official Symbol	HTR3A
NCBI Official Synonym Symbols	HTR3; 5HT3R; 5-HT-3; 5-HT3A; 5-HT3R
UniProt Protein Name	5-hydroxytryptamine receptor 3A
UniProt Synonym Protein Names	5-hydroxytryptamine receptor 3; 5-HT-3; 5-HT3R; Serotonin receptor 3A; Serotonin-gated ion channel receptor
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR3A
UniProt Synonym Gene Names	5HT3R; HTR3; 5-HT3-A; 5-HT3A; 5-HT-3; 5-HT3R
UniProt Entry Name	5HT3A_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 3A; 5-HT3-A; serotonin receptor 3A; 5HT3 serotonin receptor; serotonin-gated ion channel receptor
NCBI Summary for HTR3A	The product of this gene belongs to the ligand-gated ion channel receptor superfamily. This gene encodes subunit A of the type 3 receptor for 5-hydroxytryptamine (serotonin), a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. This receptor causes fast, depolarizing responses in neurons after activation. It appears that the heteromeric combination of A and B subunits is necessary to provide the full functional features of this receptor, since either subunit alone results in receptors with very low conductance and response amplitude. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for HTR3A	5-HT(3): 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. This receptor is a ligand-gated ion channel, which when activated causes fast, depolarizing responses in neurons. It is a cation-specific, but otherwise relatively nonselective, ion channel. Belongs to the ligand-gated ion channel (TC 1.A.9) family. 5-hydroxytryptamine receptor (TC 1.A.9.2) subfamily. HTR3A sub-subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, cation; Membrane protein, multi-pass; Transporter, ion channel; Channel, ligand-gated; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.1 Cellular Component: postsynaptic membrane; cell soma; axon; integral to plasma membrane; cytoplasm; plasma membrane; cell junction Molecular Function: serotonin-activated cation-selective channel activity; voltage-gated potassium channel activity; serotonin binding; serotonin receptor activity; receptor activity Biological Process: synaptic transmission; response to ethanol; transport; digestion; response to cocaine; transmembrane transport; serotonin receptor signaling pathway
Research Articles on HTR3A	**1.** The association between HTR3A gene SNP and response to clozapine is influenced by various clinical predictors and by differing outcome definitions in patients with treatment-resistant schizophrenia.
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