HTR7 / 5-HT7 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	HTR7 / 5-HT7, Blocking Peptide
Full Product Name	HTR7 / 5-HT7 Immunizing Peptide
Product Gene Name	HTR7 blocking peptide
Product Synonym Gene Name	5-HT7
Product Synonym Names	HTR7; 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled); 5-HT7; 5-hydroxytryptamine receptor 7; OTTHUMP00000020077; OTTHUMP00000020078; OTTHUMP00000020079; serotonin 5-HT-7 receptor; HTR7 / 5-HT7
Sequence	QNADYCRKKG HDS
Species Reactivity	Human
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	HTR7 / 5-HT7 peptide (MBS426039) is used for blocking the activity of HTR7/5-HT7 antibody (MBS422059)
Molecular Weight	47,984 Da
OMIM	182137
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for HTR7 blocking peptide	MBS426039 is a blocking peptide targeting HTR7. Also known as HTR7 / 5-HT7 Immunizing Peptide. Reactive in Human.
Other Notes	Small volumes of HTR7 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HTR7. It may not necessarily be applicable to this product.

NCBI GI #	4504547
NCBI GeneID	3363
NCBI Accession #	NP_000863.1
UniProt Secondary Accession #	P78336; P78372; P78516; Q5VX01; Q5VX02; Q5VX03; B5BUP6
UniProt Related Accession #	P34969
GenBank Nucleotide #	NM_000872.4
NCBI Official Full Name	5-hydroxytryptamine receptor 7 isoform a
NCBI Official Synonym Full Names	5-hydroxytryptamine receptor 7
NCBI Official Symbol	HTR7
NCBI Official Synonym Symbols	5-HT7
UniProt Protein Name	5-hydroxytryptamine receptor 7

UniProt Synonym Protein Names	5-HT-X; Serotonin receptor 7
Protein Family	5-hydroxytryptamine receptor
UniProt Gene Name	HTR7
UniProt Synonym Gene Names	5-HT-7; 5-HT7
UniProt Entry Name	5HT7R_HUMAN
NCBI Protein Information	5-hydroxytryptamine receptor 7
NCBI Summary for HTR7	The neurotransmitter, serotonin, is thought to play a role in various cognitive and behavioral functions. The serotonin receptor encoded by this gene belongs to the superfamily of G protein-coupled receptors and the gene is a candidate locus for involvement in autistic disorder and other neuropsychiatric disorders. Three splice variants have been identified which encode proteins that differ in the length of their carboxy terminal ends. [provided by RefSeq, Jul 2008]
UniProt Comments for HTR7	5-HT(7): 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. Belongs to the G-protein coupled receptor 1 family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: GPCR, family 1; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 10q21-q24 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: serotonin receptor activity Biological Process: blood circulation; circadian rhythm; G-protein signaling, coupled to cyclic nucleotide second messenger; serotonin receptor signaling pathway; smooth muscle contraction; synaptic transmission; vasoconstriction
Research Articles on HTR7	**1.** Study demonstrated that binding of clozapine or olanzapine to the 5-HT7 receptor leads to antagonist-mediated lysosomal degradation by exposing key residues in the C-terminal tail that interact with GASP-1
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