5HT7R Human Protein

PRODUCT OVERVIEW

Product Name	5HT7R, Protein
Full Product Name	Human 5HT7R full length protein-synthetic nanodisc
Product Gene Name	5HT7R protein
Product Synonym Names	5-HT7
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	53,555 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (92500575..92617671, complement). Location: 10q21-q24
OMIM	182137
3D Structure	ModBase 3D Structure for P34969
Product Categories/Family for 5HT7R protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for 5HT7R protein	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]
Other Notes	Small volumes of 5HT7R protein 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 5HT7R purchase	MBS189923 is a protein targeting 5HT7R. Also known as Human 5HT7R full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 5HT7R. It may not necessarily be applicable to this product.

NCBI GI #	4504547
NCBI GeneID	3363
NCBI Accession #	NP_000863.1
UniProt Primary Accession #	P34969
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 (serotonin) receptor 7, adenylate cyclase-coupled
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
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; 5-HT-7; 5-HT-X; 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)
UniProt Comments for 5HT7R	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: Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral; GPCR, family 1 Chromosomal Location of Human Ortholog: 10q21-q24 Cellular Component: integral to plasma membrane; plasma membrane Molecular Function: serotonin receptor activity Biological Process: circadian rhythm; vasoconstriction; synaptic transmission; G-protein signaling, coupled to cyclic nucleotide second messenger; smooth muscle contraction; blood circulation; serotonin receptor signaling pathway
Research Articles on 5HT7R	**1.** Serotonin skews human macrophage polarization through HTR2B and HTR7.
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