5HT7R Human Protein

PRODUCT OVERVIEW

Product Name	5HT7R, Protein
Full Product Name	Human 5HT7R-Strep 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. Do not use solvents with pH lower
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). Lyophilized proteins are shipped at ambient temperature.
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
Tag	C-DYKDDDDK&Strep
Product Categories/Family for 5HT7R protein	Calcium signaling pathway; Neuroactive ligand-receptor interaction
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.
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	MBS1883333 is a protein targeting 5HT7R. Also known as Human 5HT7R-Strep 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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