

Recombinant Human HTR7, T7 -tagged

Cat. No. HTR7-26031TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human 5HT7 Receptor with proprietary tag; Predicted MWt 73.59 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	432 amino acids
Description	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.
Conjugation	T7
Molecular Weight	73.590kDa inclusive of tags
Tissue specificity	Isoform A is the predominant isoform in spleen, caudate and hippocampus. Isoform B is expressed at lower levels. Isoform D is a minor isoform in term of expression.
Biological activity	useful for Antibody Production and Protein Array

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.31% Glutathione Note: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MMDVNSSGRPDLYGHLRSFLLPEVGRGLPDLSPDGGADPVAGSWAPHLLSEVTAS PAPTWDAPPDNASGCGEQINYGRVEKVVIGSILTLLTIAGNCLVVISVCFVKKLRQ PSNYLIVSLALADLSVAVAVMPFVSVTDLIGGKWIFGHFFCNVFIAMDVMCCTASIMT LCVISIDRYLGITRPLTYPVRQNGKCMAMILSVWLLSASITLPPFLGWAQNVNDDKV CLISQDFGYTIYSTAVAFYIPMSVMLFMYYQIYKAARKSAAKHKFPGFPRVEPDSVIAL NGIVKLQKEVEECANLSRLLKHERKNISIFKREQKAATTLGIIVGAFTVCWLPFFLLST ARPFICGTSCSCIPLWVERTFLWLGYANSLINPFYAFFNRDLRRTTYRSLLQCQYRNIN RKLSAAGMHEALKLAERPERPEFVL
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	HTR7 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled) [Homo sapiens]
Official Symbol	HTR7
Synonyms	HTR7; 5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled); 5-hydroxytryptamine receptor 7; 5 HT7;

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Gene ID	3363
mRNA Refseq	NM_000872
Protein Refseq	NP_000863
MIM	182137
Uniprot ID	P34969
Chromosome Location	10q21-q24
Pathway	Amine ligand-binding receptors, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem;
Function	G-protein coupled receptor activity; neurotransmitter receptor activity; receptor activity; serotonin receptor activity; signal transducer activity;

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