

Recombinant Human HTR2B

Cat. No. HTR2B-26027TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-56 of Human 5HT2B Receptor with N terminal proprietary tag; predicted MWt 31.79 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	56 amino acids
Description	This gene encodes one of the several different receptors for 5-hydroxytryptamine (serotonin) that belongs to the G-protein coupled receptor 1 family. Serotonin is a biogenic hormone that functions as a neurotransmitter, a hormone, and a mitogen. Serotonin receptors mediate many of the central and peripheral physiologic functions of serotonin, including regulation of cardiovascular functions and impulsive behavior. Population and family-based analyses of a minor allele (glutamine-to-stop substitution, designated Q20*) which blocks expression of this protein, and knockout studies in mice, suggest a role for this gene in impulsivity. However, other factors, such as elevated testosterone levels, may also be involved.
Molecular Weight	31.790kDa inclusive of tags
Tissue specificity	Detected in most peripheral organs. Only low expression levels were found in the brain.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MALSYRVSELQSTIPEHILQSTFVHVISSNWSGLQTESIPEEMKQIVEEQGNKLHW
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	HTR2B 5-hydroxytryptamine (serotonin) receptor 2B [Homo sapiens]
Official Symbol	HTR2B
Synonyms	HTR2B; 5-hydroxytryptamine (serotonin) receptor 2B; 5-hydroxytryptamine receptor 2B; 5 HT(2B); 5 HT2B;
Gene ID	3357
mRNA Refseq	NM_000867
Protein Refseq	NP_000858
MIM	601122
Uniprot ID	P41595

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Chromosome Location	2q36.3-q37.1
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 (q) signalling events, organism-specific biosystem;
Function	G-protein alpha-subunit binding; G-protein coupled receptor activity; Ras GTPase activator activity; calcium channel activity; drug binding;

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