

## Recombinant Human HTR2B

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	56 amino acids
<b>Description</b>	<p>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.</p>
<b>Molecular Weight</b>	31.790kDa inclusive of tags
<b>Tissue specificity</b>	Detected in most peripheral organs. Only low expression levels were found in the brain.
<b>Form</b>	Liquid

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

## GENE INFORMATION

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