

Recombinant Human HTR1A protein

Cat. No. HTR1A-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human HTR1A was expressed in Wheat Germ.

Species Human

Source Wheat Germ

Description This gene encodes a G protein-coupled receptor for 5-hydroxytryptamine (serotonin), and belongs to the 5-hydroxytryptamine receptor subfamily. Serotonin has been implicated in a number of physiologic processes and pathologic conditions. Inactivation of this gene in mice results in behavior consistent with an increased anxiety and stress response. Mutation in the promoter of this gene has been associated with menstrual cycle-dependent periodic fevers.

Form 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

Molecular Mass 46.1 kDa

AA Sequence

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MDVLSPGQGNNNTTSPAPFETGGNTTGISDVTVSYQVITSLLLGTLIFCAVLGNACVV
AAIALERSLQNVANYLI  GSLAVTDLMVSVLVLPMAALYQVLNKWTLGQVTCDLFIALD
VLCCTSSILHLCAIALDRYWAITDPIDYVNKRT  PRRAAALISLTWLIGFLISIPMLGWR
TPEDRSDPDACTISKDHGYTIYSTFGAFYIPLLLMLVLYGRIFRAARF  RIRKTVKKVEK
TGADTRHGASPAPQPKKS VNGESGSRNWRLGVESKAGGALCANGAVRQGDDGAA
LEVIEVHRV  GNSKEHLPLPSEAGPTPCAPASFERKNERNAEAKRKMALARERKTVK
TLGIIMGTFILCWLPFFIVALVLPFCE  SSCHMPTLLGAIINWLGYSNSLLNPVIYAYFNK
DFQNAFKKIIKCKFCRQ
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Applications	Antibody Production; Functional Study; Compound Screening
Notes	Heating may cause protein aggregation. Please do not heat this product before electrophoresis. Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
GENE INFORMATION	
Gene Name	HTR1A 5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled [Homo sapiens]
Official Symbol	HTR1A
Synonyms	HTR1A; 5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled; 5 hydroxytryptamine (serotonin) receptor 1A , ADRB2RL1, ADRBRL1; 5-hydroxytryptamine receptor 1A; 5 HT1A; 5-HT1a receptor; serotonin receptor 1A; G protein coupled receptor; guanine nucleotide-binding regulatory protein-coupled receptor; G-21; 5HT1a; 5-HT1A; 5-HT-1A; ADRBRL1; ADRB2RL1;
Gene ID	3350
mRNA Refseq	NM_000524
Protein Refseq	NP_000515
MIM	109760
UniProt ID	P08908
Chromosome	5q11.2-q13

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Location

Pathway

Function

Amine ligand-binding receptors, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem; Monoamine GPCRs, organism-specific biosystem;

G-protein coupled receptor activity; drug binding; receptor activity; serotonin binding; serotonin receptor activity; signal transducer activity;

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