

Recombinant Rhesus Monkey HTR2C Protein, His-tagged

Cat. No. HTR2C-001R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus Monkey 5-hydroxytryptamine receptor 2C Protein (23-458aa) with N-His tag was expressed in E. coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	23-458aa
Description	This gene encodes a seven-transmembrane G-protein-coupled receptor. The encoded protein responds to signaling through the neurotransmitter serotonin. The mRNA of this gene is subject to multiple RNA editing events, where adenosine residues encoded by the genome are converted to inosines. RNA editing is predicted to alter the structure of the second intracellular loop, thereby generating alternate protein forms with decreased ability to interact with G proteins. Abnormalities in RNA editing of this gene have been detected in victims of suicide that suffer from depression. In addition, naturally-occurring variation in the promoter and 5' non-coding and coding regions of this gene may show statistically-significant association with mental illness and behavioral disorders. Alternative splicing results in multiple different transcript variants.
Tag	N-His
Molecular Mass	55.3 kDa

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AA Sequence	CDISVSPVAAIVTDIFNTSDGGRFKFPDGVQNWPAISIVVIIIMTIGGNILVIMAVSMEK KLHNATNYFLMSLAIDMLVGLLVMP LSL LAILYDYVWPLPRYLCPVWISLDVLFSTAS IMHLCAISLD RYVAIRNPIEHSRFSNRTKAIMKIAIVWAISIGVSVPIPVIGLRDEDKV FV NNTTCVLNDPNFVLIGSFVAFFIPLTIMVITYCLTIYVLRRLQALMLLHGHT EEPGLSLD FLKCKRNTAE EENAANPNQDQNARRRRKKERRPRGTMQAINNERKASKVLGIVFF VFLIMWCPFFITNILSVLCEKSCNQKLMEKLLNVFVWIGYVCSGINPLVYTLFNKIYRR AFSNYLRCNYKVEKKPPVRQIPRVAATALSGRELNVNIYRHTNEPVIKKASDNEPGIE MQAENLELPVNPSSVVSERISSV
Purity	≥85%, by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from PBS, 0.05% Brij 78, 6% Trehalose, pH 7.4. The volume before lyophilization is 57 µL/vial.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%.

GENE INFORMATION

Gene Name	HTR2C 5-hydroxytryptamine receptor 2C [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	HTR2C
Synonyms	HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled; 5-hydroxytryptamine receptor 2C;

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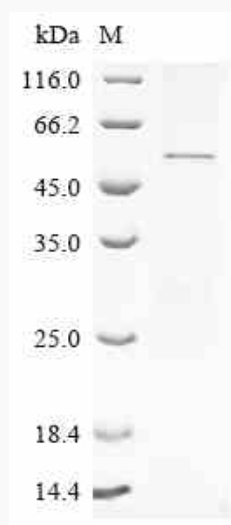
Gene ID 708141

mRNA Refseq XM_028841962

Protein Refseq XP_028697795

UniProt ID F7A578

WB



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 centigrade for 10 min is an effective alternative.

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