Recombinant Full Length Mouse HTR2C Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Full Length Mouse HTR2C Protein with N-10×His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	1-459aa
Description	Serotonin (5-hydroxytryptamine, 5-HT), a neurotransmitter, elicits a wide array of physiological effects by binding to several receptor subtypes, including the 5-HT2 family of seven-transmembrane-spanning, G-protein-coupled receptors, which activate phospholipase C and D signaling pathways. This gene encodes the 2C subtype of serotonin receptor and its mRNA is subject to multiple RNA editing events, where genomically encoded adenosine residues are converted to inosines. RNA editing is predicted to alter amino acids within the second intracellular loop of the 5-HT2C receptor and generate receptor isoforms that differ in their ability to interact with G proteins and the activation of phospholipase C and D signaling cascades, thus modulating serotonergic neurotransmission in the central nervous system. Studies in rodents show altered patterns of RNA editing in response to drug treatments and stressful situations.
Tag	N-10×His
Molecular Mass	54.6 kDa

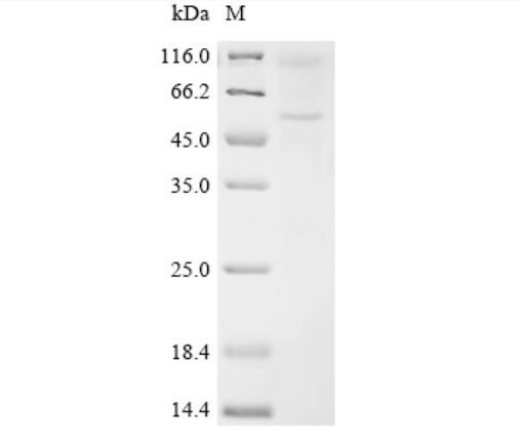
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	IVTDTFNSSDGGRLFQFPDGVQNWPALSIVVIIIMTIGGNILVIMAVSMEKKLHNATNY FLMSLAIADMLVGLLVMPLSLLAILYDYVWPLPRYLCPVWISLDVLFSTASIMHLCAISL DRYVAIRNPIEHSRFNSRTKAIMKIAIVWAISIGVSVPIPVIGLRDESKVFVNNTTCVLN DPNFVLIGSFVAFFIPLTIMVITYFLTIYVLRRQTLMLLRGHTEEELRNISLNFLKCCCKK GDEEENAPNPNPDQKPRRKKKEKRPRGTMQAINNEKKASKVLGIVFFVFLIMWCPF FITNILSVLCGKACNQKLMEKLLNVFVWIGYVCSGINPLVYTLFNKIYRRAFSKYLRCD YKPDKKPPVRQIPRVAATALSGRELNVNIYRHTNERVVRKANDTEPGIEMQVENLEL PVNPSNVVSERISSV
Purity	≥ 85% by SDS-PAGE
Storage	Store it 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 103 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%. Customers could use it as reference.

GENE INFORMATION

Gene Name	Htr2c 5-hydroxytryptamine (serotonin) receptor 2C [Mus musculus (house mouse)]
Official Symbol	HTR2C
Synonyms	HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C; 5-hydroxytryptamine receptor 2C; 5-HT1C; 5-HT-1C; 5-HT-2C; 5-HT2C receptor; serotonin receptor 2C; 5-

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	hydroxytryptamine receptor 1C; SR1; 5HT1c; Htr1c; 5-HT2C; 5-HT2cR; 5-HTR2C;
Gene ID	15560
mRNA Refseq	NM_008312
Protein Refseq	NP_032338
UniProt ID	P34968
SDS-PAGE analysis of purified protein	 Monomer: 55 kDa Dimer: 110 kDa It is speculated that the protein forms a dimeric structure. M: Protein ladder

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