Recombinant Human HTR2C

Cat. No. HTR2C-26028TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human 5HT2C Receptor with N terminal proprietary tag, 31.35kDa.
Species	Human
Source	Wheat Germ
ProteinLength	52 amino acids
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 humans have reported abnormalities in patterns of 5-HT2C editing in depressed suicide victims.
Molecular Weight	31.350kDa inclusive of tags
Form	Liquid

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

Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents: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	MVNLRNAVHSFLVHLIGLLVWQCDISVSPVAAIVTDIFNTSDGGRFKFPDGV
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.

GENE INFORMATION

Gene Name	HTR2C 5-hydroxytryptamine (serotonin) receptor 2C [Homo sapiens]
Official Symbol	HTR2C
Synonyms	HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C; HTR1C; 5-hydroxytryptamine receptor 2C; 5 HT2C;
Gene ID	3358
mRNA Refseq	NM_000868
Protein Refseq	NP_000859
MIM	312861
Uniprot ID	P28335

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

Chromosome Location	Xq23
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	1-(4-iodo-2,5-dimethoxyphenyl)propan-2-amine binding; G-protein coupled receptor activity; drug binding; phosphatidylinositol phospholipase C activity; receptor activity;

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