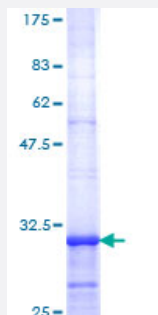


HTR2C (Human) Recombinant Protein (Q01)

Catalog # H00003358-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HTR2C partial ORF (NP_000859, 1 a.a. - 52 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVNLRNAVHSFLVHLIGLLVWQSDISVSPVAAMTDIFNTSDGGRFKFPDGV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	31.46
Interspecies Antigen Sequence	Mouse (81); Rat (81)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HTR2C

Entrez GeneID [3358](#)

GeneBank Accession# [NM_000868](#)

Protein Accession# [NP_000859](#)

Gene Name HTR2C

Gene Alias 5-HT2C, 5-HTR2C, HTR1C

Gene Description 5-hydroxytryptamine (serotonin) receptor 2C

Omim ID [312861](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations 5-hydroxytryptamine receptor 2C|OTTHUMP00000023868|OTTHUMP00000023869|serotonin 5-HT-2C receptor|serotonin receptor 2C

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Adolescent Psychology](#)
- [Affective Disorders](#)
- [Akathisia](#)
- [Alcoholism](#)
- [Alcohol-Related Disorders](#)
- [Alzheimer disease](#)
- [Anorexia Nervosa](#)
- [Antisocial Personality Disorder](#)
- [Anxiety Disorders](#)
- [Appetite](#)
- [Attention Deficit and Disruptive Behavior Disorders](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Basal Ganglia Diseases](#)
- [Bipolar Disorder](#)
- [Body Weight](#)
- [Borderline Personality Disorder](#)
- [Brief Psychiatric Rating Scale](#)

- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cognition](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Models](#)
- [Dyskinesia](#)
- [Dyspepsia](#)
- [Edema](#)
- [Epilepsy](#)
- [Executive Function](#)
- [Fatigue](#)
- [Fatigue Syndrome](#)
- [Genetic Predisposition to Disease](#)
- [Hypokinesia](#)
- [Memory](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Migraine with Aura](#)
- [Mood Disorders](#)
- [Muscle Rigidity](#)
- [NARP](#)
- [Neuropsychological Tests](#)
- [Obesity](#)

- [Ovarian Failure](#)
- [Panic Disorder](#)
- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Personality Disorders](#)
- [Personality Inventory](#)
- [Polycystic Ovary Syndrome](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Puberty](#)
- [Puerperal Disorders](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Seasonal Affective Disorder](#)
- [Sexual Dysfunction](#)
- [Sleep](#)
- [Sleep Apnea](#)
- [Stress](#)
- [Substance Withdrawal Syndrome](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Tourette Syndrome](#)
- [Tremor](#)
- [Tuberous sclerosis](#)

- [Weight Gain](#)
- [Weight Loss](#)
- [Weil Disease](#)