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Product Information

MemDX™ Membrane Protein Human HTR2C (5-hydroxytryptamine receptor 2C) Full Length

Cat. No.: **MPC0208K**
This product is for research use only and is not intended for diagnostic use.

This product is a 51.8 kDa Human HTR2C membrane protein expressed in Baculovirus/Insect expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
HTR2C

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
51.8 kDa

TMD
7

Sequence
MVNLRNAVHSFLVHLIGLLVWQCDISVSPVAAIVTDIFNTSDGGRFKFPD
GVQNWPALSIVIIIIMTIGGNILVIMAVSMEKKLHNATNYFLMSLAIADM
LVGLLVMPLSLLAILYDYVWPLPRYLCPVWISLDVLFSTASIMHLCAISL
DRYVAIRNPIEHSRFNSRTKAIMKIAIVWAISIGVSVPIPVIGLRDEEKV
FVNNTTCVLNDPNFVLIGSFVAFFIPLTIMVITYCLTIYVLRRQALMLLH
GHTEEPPGLSLDFLKCCKRNTAEEENSANPNQDQNARRRKKKERRPRGTM
QAINNERKASKVLGIVFFVFLIMWCPFFITNILSVLCEKSCNQKLMEKLL
NVFVWIGYVCSGINPLVYTLFNKIYRRAFSNYLRCNYKVEKKPPVRQIPR
VAATALSGRELNVNIYRHTNEPVIEKASDNEPGIEMQVENLELPVNPSSV
VSERISSV

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag

Flag tag at N-terminal and 10xHis tag at C-terminal

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

HTR2C

Full Name

5-hydroxytryptamine receptor 2C

Introduction

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-occuring 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.

Alternative Names

HTR1C; 5-HT1C; 5-HT2C; 5HTR2C; 5-HTR2C; 5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled; 5-hydroxytryptamine receptor 1C; serotonin 5-HT-1C receptor; serotonin 5-HT-2C receptor; HTR2C; 5-hydroxytryptamine receptor 2C

Gene ID

3358

UniProt ID

P28335

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