

Product Information

MemDX™ Membrane Protein Human HTR2A (5-hydroxytryptamine receptor 2A) Full Length

Cat. No.: **MPC0206K**

This product is for research use only and is not intended for diagnostic use.

This product is a 52.6 kDa Human HTR2A 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

HTR2A

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

52.6 kDa

TMD

7

Sequence

MDILCEENTSLSSTTNSLMQLNDDTRLYSNDFNSGEANTSDAFNWTVDS
E NRTNLSCEGCLSPSCLSLLHLQEKNWSALLTAVVIILTIAGNILVIMAVS
LEKKLQNATNYFLMSLAIDMLLGFLVMPVSMILTILYGYRWPLPSKLCAV
WIYLDVLFSTASIMHLCAISLDTRYVAIQNPIHHSRFNSRTKAFLKIIAVW
TISVGISMPPIPVFGLQDDSKVFKEGSCLLADDNFVLIGSFVSFFIPLTIM
VITYFLTIKSLQKEATLCVSDLGTRAKLASFSFLPQSSLSSEKLFQRSIH
REPGSYTGRRTMQSISNEQKACKVLGIVFFLFVVMWCPFFITNIMAVICK
ESCNEVDIGALLNVFVWIGYLSSAVNPLVYTLFNKTYRSAFSRYIQCQYK
ENKKPLQLILVNTIPALAYKSSQLQMGQKKNKQDAKTTDNDCSMVALGK
QHSEEASKDNSDGVNEKVSCV

Product Description

Expression Systems

Baculovirus/Insect expression system

Tag

Flag tag and 10× His tag at the N-terminus

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

HTR2A

Full Name

5-hydroxytryptamine receptor 2A

Introduction

This gene encodes one of the receptors for serotonin, a neurotransmitter with many roles. Mutations in this gene are associated with susceptibility to schizophrenia and obsessive-compulsive disorder, and are also associated with response to the antidepressant citalopram in patients with major depressive disorder (MDD). MDD patients who also have a mutation in intron 2 of this gene show a significantly reduced response to citalopram as this antidepressant downregulates expression of this gene. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

HTR2; 5-HT2A; 5-HT2 receptor; 5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled; serotonin 5-HT-2A receptor; HTR2A; 5-hydroxytryptamine receptor 2A

Gene ID

[3356](#)

UniProt ID

[P28223](#)