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Product Information

MemDX™ Membrane Protein Human ADORA2A (Adenosine A2a receptor) Full Length

Cat. No.: **MPC0022K**
This product is for research use only and is not intended for diagnostic use.

This product is a 44.7 kDa Human ADORA2A 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
ADORA2A

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
44.7 kDa

TMD
7

Sequence
MPIMGSSVYITVELAIAVLAILGNVLVCWAVWLNSNLQNVTNYFVVSLAA
ADIAVGVLAIPFAITISTGFCAACHGCLFIACFVLVLTQSSIFSLLAIAI
DRYIAIRIPLRYNGLVTGTRAKGIIAICWVLSFAIGLTPMLGWNNCGQPK
EGKNHSQGCGEGQVACLFEDVVPMNYMVYFNFFACVLVPLLLMLGVYLRI
FLAARRQLKQMESQPLPGERARSTLQKEVHAAKSLAIIVGLFALCWLPLH
IINCFTFFCPDCSHAPLWLMYLAIVLSHTNSVVNPFIYAYRIREFRQTFR
KIIRSHVLRQQEPFKAAGTSARVLAAHGSDGEQVSLRLNGHPPGVWANGS
APHPERRPNGYALGLVSGGSAQESQGNTGLPDVELLSHELKGVCPEPPGL
DDPLAQDGAGVS

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag
10xHis tag at the C-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

ADORA2A

Full Name

Adenosine A2a receptor

Introduction

This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily, which is subdivided into classes and subtypes. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein, an adenosine receptor of A2A subtype, uses adenosine as the preferred endogenous agonist and preferentially interacts with the G(s) and G(olf) family of G proteins to increase intracellular cAMP levels. It plays an important role in many biological functions, such as cardiac rhythm and circulation, cerebral and renal blood flow, immune function, pain regulation, and sleep. It has been implicated in pathophysiological conditions such as inflammatory diseases and neurodegenerative disorders. Alternative splicing results in multiple transcript variants. A read-through transcript composed of the upstream SPECC1L (sperm antigen with calponin homology and coiled-coil domains 1-like) and ADORA2A (adenosine A2a receptor) gene sequence has been identified, but it is thought to be non-coding.

Alternative Names

A2aR; RDC8; ADORA2; adenosine receptor subtype A2a; ADORA2A; Adenosine A2a receptor

Gene ID

135

UniProt ID

P29274

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