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# Product Information

## MemDX™ Membrane Protein Human ADORA1 (Adenosine A1 receptor) Full Length

Cat. No.: **MPC0021K**
This product is for research use only and is not intended for diagnostic use.

This product is a 36.5 kDa Human ADORA1 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**
ADORA1

**Protein Length**
Full length

**Protein Class**
GPCR

**Molecular Weight**
36.5 kDa

**TMD**
7

**Sequence**
MPPSISAFQAAYIGIEVLIALVSVPGNVLVIWAVKVNQALRDATFCFIVS
LAVADVAVGALVIPLAILINIGPQTYFHTCLMVACPVLILTQSSILALLA
IAVDRYLRVKIPLRYKMVVTPRRAAVAIAGCWILSFVVGLTPMFGWNNLS
AVERAWAANGSMGEPVIKCEFEKVISMEYMVYFNFFVWVLPPLLLMVLIY
LEVFYLIRKQLNKKVSASSGDPQKYYGKELKIAKSLALILFLFALSWLPL
HILNCITLFCPSCHKPSILTYIAIFLTHGNSAMNPIVYAFRIQKFRVTFL

KIWNDHFRCQPAPPIDEDLPEERPDD

## Product Description

**Expression Systems**
Baculovirus/Insect expression system

**Tag**
Flag tag at N-terminal and 8-His 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**

ADORA1

**Full Name**

Adenosine A1 receptor

**Introduction**

The protein encoded by this gene is an adenosine receptor that belongs to the G-protein coupled receptor 1 family. There are 3 types of adenosine receptors, each with a specific pattern of ligand binding and tissue distribution, and together they regulate a diverse set of physiologic functions. The type A1 receptors inhibit adenylyl cyclase, and play a role in the fertilization process. Animal studies also suggest a role for A1 receptors in kidney function and ethanol intoxication. Transcript variants with alternative splicing in the 5' UTR have been found for this gene.

**Alternative Names**

RDC7; adenosine A1 receptor variant 1; adenosine A1 receptor variant 2; AA1R; ADORA1; Adenosine A1 receptor

**Gene ID**

134

**UniProt ID**

P30542

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