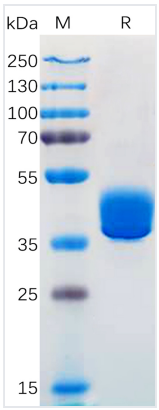
ADORA2A Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	ADORA2A, Recombinant Protein
Full Product Name	Human ADORA2A Protein, hFc
Product Gene Name	ADORA2A recombinant protein
Product Synonym Names	A2aR; ADORA2; RDC8
Sequence	ADORA2A (Met1-Ser7)+ (Ser67-His 77)+ (Cys259-Pr o266)+ (Asn144-Pr o173)+hFc (Glu99-Ala 330)
Host	HEK293 cells
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Purity/Purification	>95%; affinity purification
Preparation and Storage	Store at -80 degree C for 12 months (Avoid repeated freezing and thawing)
Molecular Weight	44,707 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (24823530..24838325). Location: 22q11.23
OMIM	102776
3D Structure	ModBase 3D Structure for P29274
Species	Human
Tag	C-Human Fc tag
Reconstitution	Reconstitute with deionized water
Related Product Information for ADORA2A recombinant protein	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. [provided by RefSeq, Jun 2013]
Other Notes	Small volumes of ADORA2A recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADORA2A purchase	MBS188727 is a recombinant protein targeting ADORA2A. Also known as Human ADORA2A Protein, hFc. Host: HEK293 cells.



SDS-Page of ADORA2A recombinant protein

Figure 1. Human ADORA2A Protein, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADORA2A. It may not necessarily be applicable to this product.

NCBI GI #	5921992
NCBI GeneID	135
NCBI Accession #	NP_000666.2
UniProt Primary Accession #	P29274
UniProt Secondary Accession #	B2R7E0
UniProt Related Accession #	P29274
GenBank Nucleotide #	NM_000675.5
NCBI Official Full Name	adenosine receptor A2a
NCBI Official Synonym Full Names	adenosine A2a receptor
NCBI Official Symbol	ADORA2A
NCBI Official Synonym Symbols	A2aR; RDC8; ADORA2
UniProt Protein Name	Adenosine receptor A2a
Protein Family	Adenosine receptor
UniProt Gene Name	ADORA2A
UniProt Synonym Gene Names	ADORA2
UniProt Entry Name	AA2AR_HUMAN
NCBI Protein Information	adenosine receptor A2a; adenosine receptor subtype A2a

UniProt Comments for ADORA2A	ADORA2A: one of several receptor subtypes for adenosine. A G-protein coupled receptor. Activation is mediated by G proteins which activate adenylyl cyclase. Abundant in basal ganglia, vasculature and platelets and it is a major target of caffeine. Protein type: Membrane protein, integral; Receptor, GPCR; GPCR, family 1; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 22q11.23 Cellular Component: membrane; integral to plasma membrane; plasma membrane Molecular Function: identical protein binding; protein binding; enzyme binding; adenosine receptor activity, G-protein coupled Biological Process: central nervous system development; nerve growth factor receptor signaling pathway; blood circulation; apoptosis; adenylate cyclase activation; phagocytosis; G-protein signaling, coupled to cAMP nucleotide second messenger; cell-cell signaling; sensory perception; cellular defense response; cAMP biosynthetic process; inflammatory response; blood coagulation; adenosine receptor signaling pathway; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on ADORA2A	**1.** diplotype of ADORA2A is associated with Acute encephalopathy with biphasic seizures and late reduced diffusion
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