

Recombinant Full Length Human ADORA2A Protein

Cat. No. ADORA2A-967HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADORA2A full-length ORF (NP_000666.2) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	412 amino acids
Description	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]

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Form	Liquid
Molecular Mass	44.7 kDa
AA Sequence	MPIMGSSVYI TVELIAVLA ILGNLVCWA VWLNSNLQNV TNYFVVSLLA ADIAVGVLAI PFAITISTGF CAACHGCLFI ACFVLVLTQS SIFSLLAIAI DRYIAIRIPL RYNGLVLTGTR AKGIIAICWV LSFAIGLTPM LGWNNCGQPK EGKNHSQGCG EGQVACLFED VVPMNYMVYF NFFACVLVPL LLMLGVYLRI FLAARRQLKQ MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLPLH IINCFTFFCP DCSHAPLWLM YLAIVLSHTN SVVNPFIYAY RIREFRQTFR KIIRSHVLRQ QEPFKAAGTS ARVLAHGS DGEQVSLRLNG HPPGVWANGS APHPERRPNG YALGLVSGGS AQESQGNTGL PDVELLSHEL KGVCPPEPPGL DDPLAQDGAG VS
Applications	Antibody Production Functional Study Compound Screening
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH 8.0 containing 2% glycerol.
GENE INFORMATION	
Gene Name	ADORA2A adenosine A2a receptor [Homo sapiens]
Official Symbol	ADORA2A
Synonyms	ADORA2A; adenosine A2a receptor; ADORA2; adenosine receptor A2a; RDC8; adenosine A2 receptor; adenosine receptor subtype A2a; hA2aR
Gene ID	135

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mRNA Refseq	NM_000675
Protein Refseq	NP_000666
MIM	102776
UniProt ID	P29274

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