

Recombinant Human ADORA2A Protein, GST-tagged

Cat. No. ADORA2A-368H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ADORA2A full-length ORF (NP_000666.2, 1 a.a. - 412 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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]</p>
Molecular Mass	71.1 kDa

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AA Sequence

MPIMGSSVYITVELAIAVLAILGNVLCWAVWLNSNLQNVTNYFVVS�AAADIAVGVL
 AIPFAITISTGFCAACHGCLFIACFVLVLTQSSIFSLLAIAIDRYIAIRIPLRYNGLVTGTRA
 KGIIAICWVLSFAIGLTPMLGWNNCGQPKEGKNHSQGC GEGQVACLFEDV VPMNYM
 VYFNFFACVLVPLLLMLGVYLRIFLAARRQLKQMESQPLPGERARSTLQKEVHAAKS
 LAIIVGLFALCWLP LHIINCFTFFCPDCSHAPLWLMYLAI VLSHTNSVVNPFYAYRIRE
 FRQTFRKIIRSHVLRQQEPFKAAGTSARVLA AHGSDGEQVSLRLNGHPPGVWANGS
 APHPERRPNGYALGLVSGGSAQESQGNTGLPDVELLSHELKGVCPPEPPGLDDPLA
 QDGAGVS

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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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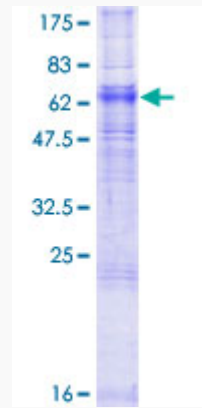
mRNA Refseq [NM_000675](#)

Protein Refseq [NP_000666](#)

MIM [102776](#)

UniProt ID [P29274](#)

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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