

## Recombinant Human ADORA2A Protein

Cat. No. ADORA2A-367H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Human ADORA2A full-length ORF (NP\_000666.2) recombinant protein without tag.

**Species** Human

**Source** Wheat Germ

**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]

**Form** Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	44.7 kDa
<b>AA Sequence</b>	<p>MPIMGSSVYITVELAIAVLAILGNVLCWAVWLNSNLQNVVTNYFVVS LAAADI AVGVL  AIPFAITISTGFCAACHGCLFIACFVLVLTQSSIFSL LAIAIDRYIAIRIPLRYNGLVTGTRA  KGIIAICWVLSFAIGLTPMLGWNNCGQPKEGKNHSQGC GEGQVACL FEDV VPMNYM  VYFNFFACVLVPLLLMLGVYLRIFLAARRQLKQMESQPLPGERARSTLQKEVHAAKS  LAIIVGLFALCWLP LHIINCFTFFCPDCSHAPLWLMYLAI VLSHTNSV VNPFIYAYRIRE  FRQTFRKIIRSHVLRQQEPFKAAGTSARVLA AHGSDGEQVSLRLNGHPPGVWANGS  APHPERRPNGYALGLVSGGSAQESQGNTGLPDVELLSHELKGV CPEPPGLDDPLA  QDGAGVS</p>
<b>Applications</b>	<p>Antibody Production  Functional Study  Compound Screening</p>
<b>Usage</b>	Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	25 mM Tris-HCl of pH 8.0 containing 2% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	ADORA2A adenosine A2a receptor [ Homo sapiens ]
<b>Official Symbol</b>	ADORA2A
<b>Synonyms</b>	ADORA2A; adenosine A2a receptor; ADORA2; adenosine receptor A2a; RDC8;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



adenosine A2 receptor; adenosine receptor subtype A2a; hA2aR;

**Gene ID**

135

**mRNA Refseq**

NM\_000675

**Protein Refseq**


NP\_000666

**MIM**

102776

**UniProt ID**

P29274

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA