

# Recombinant Full Length Human ADORA2A Protein, GST-tagged

**Cat. No.** ADORA2A-971HF    **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

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

 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

|                         |   |
|-------------------------|---|
|                         | RefSeq, Jun 2013]   |
| <b>Molecular Mass</b>   | 71.1 kDa  |
| <b>AA Sequence</b>      | <p>MPIMGSSVYI TVELAIAVLA ILGNVLCWA VWLNSNLQNV TNYFVVS LAA<br/>         ADIavgvlai PFAITISTGF CAACHGCLFI ACFVLVLTQS SIFSLIAIAI DRYIAIRIPL<br/>         RYNGLVGTGR AKGIIAICWV LSFAIGLTPM LGWNNCGQPK EGKNHSQGCG<br/>         EGQVACL FED VVPMNYMVYF NFFACVLVPL LLMLGVYLRI FLAARRQLKQ<br/>         MESQPLPGER ARSTLQKEVH AAKSLAIIVG LFALCWLPLH IINCFTFFCP<br/>         DCSHAPLWLM YLAIVLSHTN SVVNPFIYAY RIREFRQTFR KIIRSHVLRQ<br/>         QEPFKAAGTS ARVLAHGS D GEQVSLRLNG HPPGVWANGS APHPERRPNG<br/>         YALGLVSGGS AQESQGNTGL PDVELLSHEL KGCPEPPGL DDPLAQDGAG VS</p> |
| <b>Applications</b>     | <p>Enzyme-linked Immunoabsorbent Assay<br/>         Western Blot (Recombinant protein)<br/>         Antibody Production<br/>         Protein Array</p>  |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.  |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.  |
| <b>GENE INFORMATION</b> |   |
| <b>Gene Name</b>        | <a href="#">ADORA2A adenosine A2a receptor [ Homo sapiens ]</a>   |
| <b>Official Symbol</b>  | <a href="#">ADORA2A</a>   |
| <b>Synonyms</b>         | ADORA2A; adenosine A2a receptor; ADORA2; adenosine receptor A2a; RDC8; adenosine A2 receptor; adenosine receptor subtype A2a; hA2aR   |

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|                |           |
|----------------|-----------|
| Gene ID        | 135       |
| mRNA Refseq    | NM_000675 |
| Protein Refseq | NP_000666 |
| MIM            | 102776    |
| UniProt ID     | P29274    |

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