

## Recombinant Human ADORA2A Protein (M4-L208, E219-K315, A54L, T88A, R107A, K122A, N154A, L202A, L235A, V239A, S277A), N-Flag/C-10×His-tagged

**Cat. No.** ADORA2A-18H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human Flag-AA2AR(M4-L208)-BRIL-AA2AR(E219-K315) (A54L, T88A, R107A, K122A, N154A, L202A, L235A, V239A, S277A)-AAA-10His was expressed in insect cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | M4-L208, E219-K315, A54L, T88A, R107A, K122A, N154A, L202A, L235A, V239A, S277A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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 |

 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

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.

|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Liquid                                                                                                                                                              |
| <b>Endotoxin</b>      | < 0.01 EU/μg of the protein                                                                                                                                         |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade                                                                            |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | 20 mM HEPES pH7.5, 500 mM NaCl, 20 μM theophylline, 10% glycerol, 0.05% LMNG, 0.005% CHS                                                                            |
| <b>Shipping</b>       | It is shipped out with blue ice.                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ADORA2A adenosine A2a receptor [ Homo sapiens (human) ]                                                                              |
| <b>Official Symbol</b> | ADORA2A                                                                                                                              |
| <b>Synonyms</b>        | ADORA2A; adenosine A2a receptor; ADORA2; adenosine receptor A2a; RDC8; adenosine A2 receptor; adenosine receptor subtype A2a; hA2aR; |
| <b>Gene ID</b>         | 135                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_000675                                                                                                                            |

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|----------------|-----------|
| Protein Refseq | NP_000666 |
| MIM            | 102776    |
| UniProt ID     | P29274    |

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