

Recombinant Human ADORA2A Protein (P2-L208, E219-A316, S91K), N-Flag/C-10xHis-tagged

Cat. No. ADORA2A-19H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human Flag-AA2AR(P2-L208) (S91K)-BRIL-AA2AR(E219-A316)-10His was expressed in insect cells.

Species

Human

Source


Insect Cells

ProteinLength

P2-L208, E219-A316, S91K

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.

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Form	Liquid
Endotoxin	< 0.01 EU/μg of the protein
Purity	70%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade
Storage	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.
Storage Buffer	Supplied as sterile 20 mM HEPES pH7.5, 500 mM NaCl, 20 μM theophylline, 10% glycerol, 0.05% (w/v) LMNG, 0.005% (w/v) CHS
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	ADORA2A adenosine A2a receptor [Homo sapiens (human)]
Official Symbol	ADORA2A
Synonyms	ADORA2A; adenosine A2a receptor; ADORA2; adenosine receptor A2a; RDC8; adenosine A2 receptor; adenosine receptor subtype A2a; hA2aR;
Gene ID	135
mRNA Refseq	NM_000675
Protein Refseq	NP_000666

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MIM	102776
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UniProt ID	P29274
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