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Datasheet for ABIN7092676

Adenosine A2a Receptor Protein (ADORA2A) (Fc Tag)

Overview

Quantity:	100 µg
Target:	Adenosine A2a Receptor (ADORA2A)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Adenosine A2a Receptor protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human ADORA2A Protein with C-terminal Human Fc tag
Specificity:	ADORA2A (Met1-Ser7) (Ser67-His77) (Asn144-Pro173) (Cys259-Pro266) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Adenosine A2a Receptor (ADORA2A)
Alternative Name:	ADORA2A (ADORA2A Products)
Background:	Synonyms: A2aR, ADORA2, RDC8 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

Target Details

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]

Molecular Weight: predicted molecular mass of 31.7 kDa after removal of the signal peptide. The apparent molecular mass of ADORA2A-hFc is 35-55 kDa due to glycosylation.

UniProt: [P29274](#)

Pathways: [Neurotrophin Signaling Pathway](#), [cAMP Metabolic Process](#), [Synaptic Membrane](#), [Feeding Behaviour](#), [Cancer Immune Checkpoints](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with deionized water

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

Storage: -20 °C, -80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months