PRODUCT INFORMATION

Target	ADRA2A
Synonyms	ADRA2, ADRAR, FPLD8, ZNF32, ADRA2R, ALPHA2AAR
Description	Recombinant human ADRA2A Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P08913
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	ADRA2A(Met1-Thr48) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 31.1 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	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.
Background	Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. The alpha-2-adrenergic receptors are a type of adrenergic receptors (for adrenaline or epinephrine), which inhibit adenylate cyclase. These receptors include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. They are involved in regulating the release of neurotransmitter molecules from sympathetic nerves and from adrenergic neurons in the central nervous system. The sympathetic nervous system regulates cardiovascular function by activating adrenergic receptors in the heart, blood vessels and kidney. Studies in mouse revealed that both the alpha2A and alpha2C receptor subtypes were required for presynaptic transmitter release from the sympathetic nervous system in the heart and from central noradrenergic neurons. The alpha-2-adrenergic receptors are also involved in catecholamine signaling by extracellular regulated protein kinase 1 and 2 (ERK1/2) pathways. A clear association between the alpha-2-adrenergic receptor and disease has not been yet established. [provided by RefSeq, Sep 2019]
Usage	Research use only
Conjugate	Unconjugated

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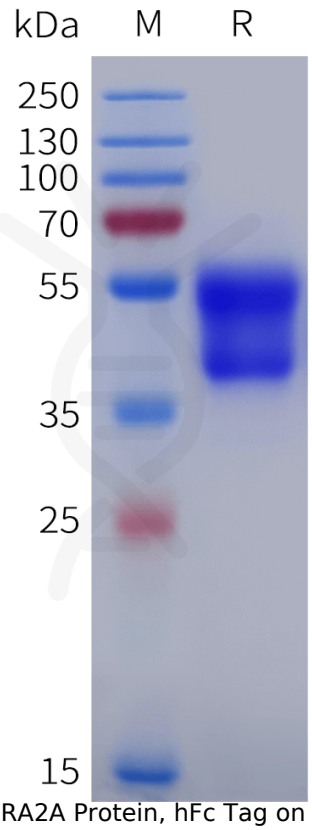

Figure 1. Human ADRA2A Protein, hFc Tag on SDS-PAGE under reducing condition.

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