

Recombinant Human ADRA2A, GST-tagged

Cat. No. ADRA2A-9442H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADRA2A protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	220-376a.a.
Description	Alpha-2-adrenergic receptors are members of the G protein-coupled receptor superfamily. They include 3 highly homologous subtypes: alpha2A, alpha2B, and alpha2C. These receptors have a critical role in regulating neurotransmitter release from sympathetic nerves and from adrenergic neurons in the central nervous system. Studies in mouse revealed that both the alpha2A and alpha2C subtypes were required for normal presynaptic control of transmitter release from sympathetic nerves in the heart and from central noradrenergic neurons; the alpha2A subtype inhibited transmitter release at high stimulation frequencies, whereas the alpha2C subtype modulated neurotransmission at lower levels of nerve activity. This gene encodes alpha2A subtype and it contains no introns in either its coding or untranslated sequences.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM

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GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name [ADRA2A adrenoceptor alpha3B\[Homo sapiens \]](#)

Official Symbol ADRA2A

Synonyms ADA2A_HUMAN; ADRA2; ADRA2A; ADRA2R; ADRAR; Adrenergic alpha 2A receptor; Alpha 2 adrenergic receptor subtype C10; Alpha 2A adrenergic receptor; Alpha 2AAR subtype C10; Alpha-2 adrenergic receptor subtype C10; alpha-2-adrenergic receptor, platelet type; Alpha-2A adrenergic receptor; Alpha-2A adrenoceptor; Alpha-2A adrenoreceptor; Alpha-2AAR; ALPHA2AAR; OTTHUMP00000058849; ZNF32

Gene ID [150](#)

mRNA Refseq [NM_000681.3](#)

Protein Refseq [NP_000672.3](#)

MIM [104210](#)

UniProt ID [P08913](#)

Chromosome Location 10q25.2

Pathway Adrenaline signalling through Alpha-2 adrenergic receptor;Adrenoceptors;Amine ligand-binding receptor;Class A/1 (Rhodopsin-like receptors);G alpha (i) signalling events;G alpha (z) signalling events;GPCR downstream signaling

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Function

alpha-1B adrenergic receptor binding;alpha-2C adrenergic receptor binding;alpha2-adrenergic receptor activity;;epinephrine binding

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