

Recombinant Full Length Human ADRA2A Protein

Cat. No. ADRA2A-978HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADRA2A full-length ORF (NP_000672.2) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	465 amino acids
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. [provided by RefSeq, Jul 2008]
Form	Liquid
Molecular Mass	49 kDa
AA Sequence	MGSLQPDAGN ASWNGTEAPG GGARATPYSL QVTLLVCLA GLLMLLTVFG

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NVLVIIAVFT SRALKAPQNL FLVSLASADI LVATLVIPFS LANEVMGYWY
 FGKAWCEIYL ALDVLFACTSS IVHLCALSLD RYWSITQAIE YNLKRTPRRI
 KAIITVWVI SAVISFPPLI SIEKKGGGGG PQPAEPRCEI NDQKWYVISS
 CIGSFFAPCL IMILVYVRIY QIAKRRTTRVP PSRRGPDAVA APPGGTERRP
 NGLGPERSAG PGGAEAEPLP TQLNGAPGEP APAGPRDTDA LDLEESSSSD
 HAERPPGPRR PERGPRGKGK ARASQVKPGD SLPRRPGGAT GIGTPAAGPG
 EERVGAAKAS RWRGRQNREK RFTFVLAVVI GVFVVCWFPF FFTYTLTAVG
 CSVPRTLKFK FFWFGYCNS LNPVIYTIFN HDFRRAFKKI LCRGDRKRIV

Applications

Antibody Production
 Functional Study
 Compound Screening

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH 8.0 containing 2% 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](#)

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mRNA Refseq	NM_000681.3
Protein Refseq	NP_000672.3
MIM	104210
UniProt ID	P08913

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