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Product Information

MemDX™ Membrane Protein Human ADRA2A (Adrenoceptor alpha 2A) Full Length

Cat. No.: **MPC0028K**
This product is for research use only and is not intended for diagnostic use.

This product is a 50.6 kDa Human ADRA2A membrane protein expressed in Baculovirus/Insect expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
ADRA2A

Protein Length
Full length

Protein Class
GPCR

Molecular Weight
50.6 kDa

TMD
7

Sequence
MFRQEQPLAEGSFAPMGSLQPDAGNASWNGTEAPGGGARATPYSLQVTLT
LVCLAGLLMLLTVFGNVLVIIAVFTSRALKAPQNLFLVSLASADILVATL
VIPFSLANEVMGYWYFGKAWCEIYLALDVLFCTSSIVHLCAISLDRYWSI
TQAIEYNLKRTPRRIKAIIITVWVISAVISFPPLISIEKKGGGGGPQPAE
PRCEINDQKWYVISSCIGSFFAPCLIMILVYVRIYQIAKRRTRVPPSRRG
PDAVAAPPGGTERRPNGLGPERSAGPGGAEAEPLPTQLNGAPGEPAPAGP
RDTDALDLEESSSSDHAERPPGPRRPERGPRGKGKARASQVKPGDSLPRR
GPGATGIGTPAAGPGEERVGAAKASRWRGRQNREKRFTFVLAVVIGVFVV
CWFPFFFTYTLTAVGCSVPRTLFKFFFWFGYCNSSLNPVIYTIFNHDFRR
AFKKILCRGDRKRIV

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ADRA2A

Full Name

Adrenoceptor alpha 2A

Introduction

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.

Alternative Names

ADRA2; ADRAR; ZNF32; ADRA2R; ALPHA2AAR; adrenergic, alpha-2A-, receptor; alpha-2 adrenergic receptor subtype C10; alpha-2-adrenergic receptor, platelet type; alpha-2A adrenoceptor; alpha-2A adrenoreceptor; alpha-2AAR subtype C10; ADRA2A; Adrenoceptor alpha 2A

Gene ID

150

UniProt ID

P08913

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