

PRODUCT INFORMATION

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| Tag | C-Flag Tag |
| Target | ADRB2 |
| Synonyms | ADRB2R, ADRBR, B2AR, BAR, BETA2AR |
| Description | Human ADRB2 full length protein-synthetic nanodisc |
| Delivery | 6~8weeks |
| Uniprot ID | P07550 |
| Expression Host | HEK293 |
| Protein Families | GPCR,Transmembrane,Druggable Genome, |
| Protein Pathways | Calcium regulation in cardiac cells,GPCRDB Class A Rhodopsin-like,GPCRDB Other,Monoamine GPCRs,Metabolic and Obesity,G-Protein Coupled Receptors Signaling Pathway,cAMP and Ca ²⁺ Signaling Pathway, |
| Molecular Weight | The human full length ADRB2 protein has a MW of 46.5kDa |
| Formulation & Reconstitution | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. |
| 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 | This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V) _{1.2} . This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This receptor is also a transcription regulator of the alpha-synuclein gene, and together, both genes are believed to be associated with risk of Parkinson's Disease. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity, type 2 diabetes and cardiovascular disease. [provided by RefSeq, Oct 2019] |
| Usage | Research use only |
| Conjugate | Unconjugated |

