

## HDFP180

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### Product Information

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|---------------------|---------|-------------------------|------------|--------------|------|
| <b>Product SKU:</b> | HDFP180 | <b>Expression Host:</b> | HEK293     | <b>Size:</b> | 10µg |
| <b>Target:</b>      | ADRB2   | <b>Tag:</b>             | C-Flag Tag |              |      |

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### Additional Information

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|--------------------------|---|--------------------|--------|
| <b>Conjugate:</b>        | Unconjugated  | <b>Uniprot ID:</b> | P07550 |
| <b>Molecular Weight:</b> | The human full length ADRB2 protein has a MW of 46.5kDa |                    |        |

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### Protein Information

**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]

**Synonyms:** ADRB2R, ADRBR, B2AR, BAR, BETA2AR

**Protein Description:** Human ADRB2 full length protein-synthetic nanodisc

**Formulation:** 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.

- 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<sup>2+</sup> Signaling Pathway.
- Protein Families:** GPCR, Transmembrane, Druggable Genome.
- Usage:** Research use only
- 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.