

HDFP918

Product Information

Product SKU:	HDFP918	Expression Host:	HEK293	Size:	10µg
Target:	ADRB2	Tag:	C-Flag&Strep Tag		

Additional Information

Conjugate:	Unconjugated	Uniprot ID:	P07550
Molecular Weight:	The human full length ADRB2-Strep protein has a MW of 46.5 kDa		

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-Strep 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 Ca² 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.