# Nanodisc Human ADA2A-Strep Protein

**HDFP915**

## Product Information

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| **Product SKU**: | HDFP915 | **Expression Host**: | HEK293 | **Size**: | 10µg |
| **Target**: | ADA2A | **Tag**: | C-Flag&Strep Tag | | |

## Additional Information

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| **Conjugate**: | Unconjugated | **Uniprot ID:** | P08913 |
| **Molecular Weight:** | The human full length ADA2A-Strep protein has a MW of 50.6 kDa | | |

## Protein Information

**Background**: 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. [provided by RefSeq, Sep 2019]

**Synonyms**: ADRA2, ADRA2R, ADRAR, ALPHA2AAR, ZNF32

**Protein Description**: Human ADA2A-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

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below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.

**Protein Pathways**: GPCRDB Class A Rhodopsin-like, Monoamine GPCRs, Metabolic and Obesity.

**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.

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