Datasheet for ABIN7491590

# Muscarinic Acetylcholine Receptor M2 Protein

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## Overview

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| Quantity: | 100 µg |
| Target: | Muscarinic Acetylcholine Receptor M2 (CHRM2) |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic |

## Product Details

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| Purpose: | Human CHRM2 full length protein-synthetic nanodisc |
| Characteristics: | Full Length Transmembrane Proteins (synthetic Nanodisc) |

## Target Details

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| Target: | Muscarinic Acetylcholine Receptor M2 (CHRM2) |
| Alternative Name: | CHRM2 (CHRM2 Products) |
| Background: | HM2<br>Description: The muscarinic cholinergic receptors belong to a larger family of G protein-coupled receptors. The functional diversity of these receptors is defined by the binding of acetylcholine to these receptors and includes cellular responses such as adenylate cyclase inhibition, phosphoinositide degeneration, and potassium channel mediation. Muscarinic receptors influence many effects of acetylcholine in the central and peripheral nervous system. The muscarinic cholinergic receptor 2 is involved in mediation of bradycardia and a decrease in cardiac contractility. Multiple alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008] |

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## Target Details

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| Molecular Weight: | The human full length CHRM2 protein has a MW of 51.5 kDa |
| UniProt: | P08172 |

## Application Details

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| Application Notes: | • Applications for VLPs:<br>• ELISA<br>• SPR affinity analysis<br>• Phage display screening<br>• Immunization<br>• Cell based assays<br>• CAR-T cell screening<br>• Protein cystal structure analysis |
| Comment: | Synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0) |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | 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. |
| Expiry Date: | 12 months |