Datasheet for ABIN7596803

# GRM8 Protein (DYKDDDDK Tag,Strep Tag)

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## Overview

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| Quantity: | 10 µg |
| Target: | GRM8 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic Nanodisc |
| Purification tag / Conjugate: | This GRM8 protein is labelled with DYKDDDDK Tag,Strep Tag. |
| Application: | Surface Plasmon Resonance (SPR), Phage Display (PhD), ELISA, Immunogen (Imm), Cryogenic electron microscopy (cryo-EM) |

## Product Details

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| Purpose: | Human GRM8-Strep full length protein-synthetic nanodisc |

## Target Details

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| Target: | GRM8 |
| Alternative Name: | GRM8 (GRM8 Products) |
| Background: | GLUR8, GPRC1H, MGLUR8, mGlu8<br>L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I |

## Target Details

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| | includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2008] |
| Molecular Weight: | The human full length GRM8-Strep protein has a MW of 101.7 kDa |
| UniProt: | O00222 |
| Pathways: | cAMP Metabolic Process, Synaptic Membrane |

## Application Details

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| Comment: | Advantages:<br>• Highly purified membrane proteins<br>• High solubility in aqueous solutions<br>• High stability<br>• Proteins are in a native membrane environment and remain biologically active<br>• No detergent and can be used for cell-based assays<br>• No MSP backbone proteins<br>• Mammalian cell expression system ensures post- translational modifications |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization. |
| 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 |