

## HDFP313

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### Product Information

<b>Product SKU:</b>	HDFP313	<b>Expression Host:</b>	HEK293	<b>Size:</b>	10µg
<b>Target:</b>	GRM1	<b>Tag:</b>	C-Flag Tag		

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### Additional Information

<b>Conjugate:</b>	Unconjugated	<b>Uniprot ID:</b>	Q13255
<b>Molecular Weight:</b>	The human full length GRM1 protein has a MW of 132.4kDa		

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### Protein Information

**Background:** This gene encodes a metabotropic glutamate receptor that functions by activating phospholipase C. 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 canonical alpha isoform of the encoded protein is a disulfide-linked homodimer whose activity is mediated by a G-protein-coupled phosphatidylinositol-calcium second messenger system. This gene may be associated with many disease states, including schizophrenia, bipolar disorder, depression, and breast cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]

**Synonyms:** GPRC1A, MGLU1, MGLUR1, PPP1R85, SCA44, SCAR13

**Protein Description:** Human GRM1 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:** GPCRDB Class C Metabotropic glutamate pheromone, GPCRDB Other.

**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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