

# Product Information

## NativeExtract™ Human GRM6 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX187**

This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human GRM6 protein in native nanodisc form. The synthetic compound we developed can solubilize the GRM6 protein from membrane while retaining the native structure.

### Product Specifications

#### Host Species

Human

#### Target Protein

GRM6

#### Protein Length

Full length

#### Molecular Weight

95.5kDa

#### Sequence

Accession # [O15303](#)

### Product Description

#### Activity

Yes

#### Application

ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

#### Expression Systems

HEK293 expression system

#### Tag

Flag tag at the C-terminus

#### Protein Format

Native Nanodisc

#### Form

Liquid

**Buffer**

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

**Storage**

The product should be stored at -20°C to -80°C.

**Target****Target Protein**

GRM6

**Full Name**

Glutamate metabotropic receptor 6

**Introduction**

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 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. Mutations in this gene result in congenital stationary night blindness type 1B.

**Alternative Names**

mGlu6; CSNB1B; GPRC1F; MGLUR6; glutamate receptor, metabotropic 6; GRM6; Glutamate metabotropic receptor 6

**Gene ID**

[2916](#)

**UniProt ID**

[O15303](#)