

Product Information

NativeExtract™ Human GRM4 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX189**

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

This product is recombinant Human GRM4 protein in native nanodisc form. The synthetic compound we developed can solubilize the GRM4 protein from membrane while retaining the native structure.

Product Specifications

Host Species

Human

Target Protein

GRM4

Protein Length

Full length

Molecular Weight

101.9kDa

Sequence

Accession # [Q14833](#)

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**

GRM4

Full Name

Glutamate metabotropic receptor 4

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. Several transcript variants encoding different isoforms have been found for this gene.

Alternative Names

mGlu4; GPRC1D; MGLUR4; glutamate receptor, metabotropic 4; GRM4; Glutamate metabotropic receptor 4

Gene ID

[2914](#)

UniProt ID

[Q14833](#)