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Product Information

NativeExtract™ Human GRM7 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX376**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human GRM7 protein in native nanodisc form. The synthetic compound we developed can solubilize the GRM7 protein from membrane while retaining the native structure.

Product Specifications

Host Species
Human

Target Protein
GRM7

Protein Length
Full length

Molecular Weight
102.3 kDa

Sequence
Accession # Q14831

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

GRM7

Full Name

Glutamate metabotropic receptor 7

Introduction

L-glutamate is the major excitatory neurotransmitter in the central nervous system, and it 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 three 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. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

GLUR7; MGLU7; GPRC1G; MGLUR7; NEDSHBA; PPP1R87; glutamate receptor, metabotropic 7; protein phosphatase 1, regulatory subunit 87; GRM7; Glutamate metabotropic receptor 7

Gene ID

2917

UniProt ID

Q14831

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