

Recombinant Human GRM7 293 Cell Lysate

Cat. No. GRM7-5732HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source HEK293

Description

Antigen standard for glutamate receptor, metabotropic 7 (GRM7), transcript variant 1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid (True ORF cDNA clone RC217402, OriGene Technologies, Inc.) and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.

Components

This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).

Size 0.1 mg

Storage Instruction

Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

GRM7 glutamate receptor, metabotropic 7 [Homo sapiens]

Official Symbol

GRM7

Synonyms

GRM7; glutamate receptor, metabotropic 7; metabotropic glutamate receptor 7; GLUR7; GPRC1G; mGlu7; MGLUR7; MGLU7; FLJ40498;

Gene ID

2917

mRNA Refseq

NM_000844

Protein Refseq

NP_000835

MIM

604101

UniProt ID

Q14831

**Chromosome
Location**

3p26-p25

Pathway

Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class C Metabotropic glutamate, pheromone, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem; Neuroactive ligand-receptor interaction, organism-specific biosystem; Neuroactive

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ligand-receptor interaction, conserved biosystem;

Function

G-protein coupled receptor activity; PDZ domain binding; adenylate cyclase inhibitor activity; calcium channel regulator activity; calcium ion binding; glutamate binding; glutamate receptor activity; group III metabotropic glutamate receptor activity; receptor activity; serine binding; signal transducer activity; voltage-gated calcium channel activity;

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