

Recombinant Human GRIN1 293 Cell Lysate

Cat. No. GRIN1-5745HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for glutamate receptor, ionotropic, N-methyl D-aspartate 1 (GRIN1), transcript variant NR1-1 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid 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

[GRIN1 glutamate receptor, ionotropic, N-methyl D-aspartate 1 \[Homo sapiens \]](#)

Official Symbol

GRIN1

Synonyms

GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; NMDAR1; glutamate [NMDA] receptor subunit zeta-1; GluN1; NMD-R1; glutamate [NMDA] receptor subunit zeta 1; N-methyl-D-aspartate receptor subunit NR1; N-methyl-D-aspartate receptor channel, subunit zeta-1; NR1; MRD8; NMDA1;

Gene ID

[2902](#)

mRNA Refseq

[NM_000832](#)

Protein Refseq

[NP_000823](#)

MIM

[138249](#)

UniProt ID

[Q05586](#)

Chromosome Location

9q34.3

Pathway

Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amphetamine addiction, organism-specific

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biosystem; Amphetamine addiction, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;

Function

contributes_to N-methyl-D-aspartate selective glutamate receptor activity; contributes_to calcium channel activity; calcium ion binding; calmodulin binding; extracellular-glutamate-gated ion channel activity; glutamate binding; glycine binding; glycine binding; ion channel activity; ionotropic glutamate receptor activity; protein binding; receptor activity; transporter activity;

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