

Recombinant Rat Grin1 Protein, His-tagged

Cat. No. Grin1-1589R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Grin1 Protein (Arg19-Gln559) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Arg19-Gln559
Description	Enables several functions, including amino acid binding activity; amyloid-beta binding activity; and ligand-gated ion channel activity. Involved in several processes, including positive regulation of dendritic spine maintenance; protein heterotetramerization; and response to fungicide. Located in several cellular components, including dendrite; postsynaptic density; and synaptic cleft. Is integral component of plasma membrane. Part of NMDA selective glutamate receptor complex. Is active in glutamatergic synapse; hippocampal mossy fiber to CA3 synapse; and parallel fiber to Purkinje cell synapse. Is integral component of postsynaptic density membrane and integral component of presynaptic membrane. Biomarker of cognitive disorder; middle cerebral artery infarction; placental insufficiency; sciatic neuropathy; and status epilepticus. Human ortholog(s) of this gene implicated in alcohol use disorder; autosomal dominant non-syndromic intellectual disability 8; and cerebral infarction. Orthologous to human GRIN1 (glutamate ionotropic receptor NMDA type subunit 1).
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 64.3 kDa Accurate Molecular Mass: 65/34 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Grin1 glutamate receptor, ionotropic, N-methyl D-aspartate 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Grin1
Synonyms	GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; glutamate [NMDA] receptor subunit zeta-1; NMD-R1; neurotransmitter receptor; NMDA R1 receptor C1 cassette; N-methyl-D-aspartate glutamate receptor; N-methyl-D-aspartate receptor

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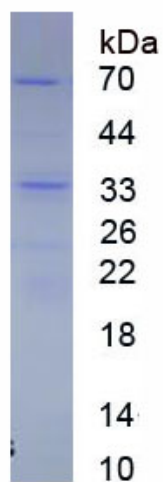
subunit NR1; NR1; NMDAR1;

Gene ID 24408

mRNA Refseq NM_017010

Protein Refseq NP_058706

UniProt ID P35439



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