

Recombinant Mouse Grin2a Protein, His-tagged

Cat. No. Grin2a-1590M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Grin2a Protein (Thr31-Ala555) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Thr31-Ala555
Description	Enables NMDA glutamate receptor activity and calcium channel activity. Involved in regulation of synaptic plasticity. Acts upstream of or within several processes, including excitatory postsynaptic potential; learning or memory; and long-term synaptic potentiation. Located in several cellular components, including glutamatergic synapse; synaptic membrane; and synaptic vesicle. Is integral component of postsynaptic density membrane. Part of NMDA selective glutamate receptor complex. Is expressed in several structures, including central nervous system; eye; hindlimb phalanx; intestine; and limb mesenchyme. Human ortholog(s) of this gene implicated in Huntington's disease; bipolar disorder; and schizophrenia. Orthologous to human GRIN2A (glutamate ionotropic receptor NMDA type subunit 2A).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 62.5 kDa Accurate Molecular Mass: 63 kDa

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Purity	> 80%
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	Grin2a glutamate receptor, ionotropic, NMDA2A (epsilon 1) [Mus musculus (house mouse)]
Official Symbol	Grin2a
Synonyms	GRIN2A; glutamate receptor, ionotropic, NMDA2A (epsilon 1); glutamate [NMDA] receptor subunit epsilon-1; GluRepsilon1; N-methyl D-aspartate receptor subtype 2A; NR2A; GluN2A; NMDAR2A;
Gene ID	14811

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