

Recombinant Mouse Nsg1 Protein, Myc/DDK-tagged

Cat. No. Nsg1-4508M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length neuron specific gene family member 1 (Nsg1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Plays a role in the recycling mechanism in neurons of multiple receptors, including AMPAR, APP and L1CAM and acts at the level of early endosomes to promote sorting of receptors toward a recycling pathway. Regulates sorting and recycling of GRIA2 through interaction with GRIP1 and then contributes to the regulation of synaptic transmission and plasticity by affecting the recycling and targeting of AMPA receptors to the synapse. Is required for faithful sorting of L1CAM to axons by facilitating trafficking from somatodendritic early endosome or the recycling endosome. In an other hand, induces apoptosis via the activation of CASP3 in response to DNA damage.
Molecular Mass	21.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Nsg1 neuron specific gene family member 1 [Mus musculus (house mouse)]

Official Symbol Nsg1

Synonyms Nsg1; neuron specific gene family member 1; p2; p21; NEEP; m234; Neep21; neuronal vesicle trafficking-associated protein 1; brain neuron cytoplasmic protein 1; neuron-enriched endosomal protein of 21 kDa; neuron-specific protein family member 1

Gene ID 18196

mRNA Refseq NM_010942

Protein Refseq NP_035072

UniProt ID Q62092

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