Neuronal Calcium Sensor 1 (NCS1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neuronal calcium sensor 1 (Ncs1), Recombinant Protein
Full Product Name	Recombinant Mouse Neuronal calcium sensor 1 (Ncs1)
Product Gene Name	Ncs1 recombinant protein
Product Synonym Gene Name	Ncs1
Sequence	GKSNSKLKPE VVEELTRKTY FTEKEVQQWY KGFIKDCPSG QLDAAGFQKI YKQFFPFGDP TKFATFVFNV FDENKDGRIE FSEFIQALSV TSRGTLDEKL RWAFKLYDLD NDGYITRNEM LDIVDAIYQM VGNTVELPEE ENTPEKRVDR IFAMMDKNAD GKLTLQEFQE GSKADPSIVQ ALSLYDGLV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	21,879 Da
Sequence Positions	2-190, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q8BNY6
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Ncs1 recombinant protein	MBS1361540 is a recombinant protein targeting Ncs1. Also known as Recombinant Mouse Neuronal calcium sensor 1 (Ncs1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Ncs1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Ncs1. It may not necessarily be applicable to this product.

NCBI GI #	9790115
NCBI GeneID	14299
NCBI Accession #	NP_062655.1
UniProt Primary Accession #	Q8BNY6
UniProt Secondary Accession #	A2AJ84
UniProt Related Accession #	Q8BNY6

GenBank Nucleotide #	NM_019681.3
NCBI Official Full Name	neuronal calcium sensor 1
NCBI Official Synonym Full Names	neuronal calcium sensor 1
NCBI Official Symbol	Ncs1
NCBI Official Synonym Symbols	Freq; Mfreq; NCS-1; AI836659; 9430075O15Rik; A730032G13Rik
UniProt Protein Name	Neuronal calcium sensor 1
UniProt Synonym Protein Names	Frequenin homolog
Protein Family	Purine-uracil permease
UniProt Gene Name	Ncs1
UniProt Synonym Gene Names	Freq; NCS-1
NCBI Protein Information	neuronal calcium sensor 1
UniProt Comments for Ncs1	Neuronal calcium sensor, regulator of G protein-coupled receptor phosphorylation in a calcium dependent manner. Directly regulates GRK1 (RHOK), but not GRK2 to GRK5. Can substitute for calmodulin (). Stimulates PI4KB kinase activity (). Involved in long-term synaptic plasticity through its interaction with PICK1 (). May also play a role in neuron differentiation through inhibition of the activity of N-type voltage-gated calcium channel ().
Research Articles on Ncs1	**1.** Phosphorylation of CaMKII-alpha, known to trigger long-term potentiation and increase BDNF levels, was significantly reduced in the Ncs1-/- mouse brain. Further, electric potential stimulation, which increases the levels of BDNF and promotes spatial learning, significantly increased the levels of NCS-1 concomitant with phosphorylated CaMKII-alpha in the hippocampus; suggesting a close relationship between NCS-1 and CaM...
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