Neuronal Calcium Sensor 1 (NCS1) Chicken Recombinant Protein

PRODUCT OVERVIEW

Product Name	Neuronal calcium sensor 1 (NCS1), Recombinant Protein
Full Product Name	Recombinant Chicken Neuronal calcium sensor 1 (NCS1)
Product Gene Name	NCS1 recombinant protein
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 P62167
Species	Chicken
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NCS1 recombinant protein	MBS1238077 is a recombinant protein targeting NCS1. Also known as Recombinant Chicken 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 #	45382423
NCBI GeneID	396336
NCBI Accession #	NP_990708.1
UniProt Primary Accession #	P62167
UniProt Secondary Accession #	P36610; Q9UK26
UniProt Related Accession #	P62167
GenBank Nucleotide #	NM_205377.1

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; NCS-1
UniProt Protein Name	Neuronal calcium sensor 1
UniProt Synonym Protein Names	Frequenin homolog; Frequenin-like protein; Frequenin-like ubiquitous protein
Protein Family	Purine-uracil permease
UniProt Gene Name	NCS1
UniProt Synonym Gene Names	FLUP; 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.MiscellaneousBinds 3 calcium ions via the second, third and fourth EF-hand.
Research Articles on NCS1	**1.** findings suggest that NCS-1 is involved in the regulation of both neurite outgrowth and growth cone morphology; in addition, NCS-1 is functionally linked to InsP(3)R1, which may play an important role in the regulation of neurite outgrowth
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