9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

NCS1 Human

Neuronal Calcium Sensor 1 Human Recombinant
RCP1470

Product Overview

Name	NCS1 Human
Description	
Neuronal Calcium Sensor 1 Human Recombinant	
Accession (Primary)	P62166
Synonyms	
Frequenin homolog, FLUP, FREQ, Neuronal calcium sensor 1, Frequenin-like protein, Frequenin-like ubiquitous protein, NCS-1, NCS1, DKFZp761L1223.	
Introduction	
NCS1 is part of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed primarily in neurons. NCS1 regulates G protein-coupled receptor phosphorylation in a calcium-dependent manner and can substitute for calmodulin. NCS1 is related with secretory granules and modulates synaptic transmission and synaptic plasticity. NCS1 regulates GRK1 and substitutes for calmodulin. NCS1 stimulates PI4KB kinase activity and participates in long-term synaptic plasticity through its interaction with PICK1. NCS1 takes part in neuron differentiation through inhibition of the activity of N-type voltage-gated calcium channel.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear colorless solution.	
Formulation	
The NCS1 solution contains 20mM Tris-HCl pH-8, 1mM DTT, and 10% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
MGKSNSKLKP EVVEELTRKT YFTEKEVQQW YKGFIKDCPS GQLDAAGFQK IYKQFFPFGD PTKFATFVFN VFDENKDGRI EFSEFIQALS VTSRGTLDEK LRWAFKLYDL DNDGYITRNE MLDIVDAIYQ MVGNTVELPE	

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EENTPEKRVD RIFAMMDKNA DGKLTLQEFQ EGSKADPSIV QALSLYDGLV LEHHHHHH.

Precautions

NCS1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P62166)