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## Product Data Sheet

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Product Name: NCS1 Human  
 Cat. No.: GP24019  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Frequenin homolog; FLUP; FREQ; Neuronal calcium sensor 1; Frequentin-like protein; Frequentin-like ubiquitous protein; NCS-1; NCS1; DKFZp761L1223.		
Amino Acid Sequence	MGKSNSKLKP EVVEELTRKT YFTEKEVQQW YKGFIDKDCPS GQLDAAGFQK IYKQFFPFGD PTKFATFVFN VF DENKDGRI EFSEFIQALS VTSRGTLDEK LRWAFKLYDL DNDGYITRNE MLDIVDAIQ MVGNTVELPE EENTPEKRVD RIFAMMDKNA DGKLTLEFQ EGSKADPSIV QALS LYDGLV LEHHHHHH.		
Formulation	The NCS1 solution contains 20mM Tris-HCl pH-8, 1mM DTT, and 10% glycerol.		

### 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.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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NCS1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 198 amino acids (1-190 a.a.) and having a molecular mass of 22.9 kDa. The NCS1 is fused to an 8 amino acid His Tag at C-Terminus and purified by proprietary chromatographic techniques.

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