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## Product Data Sheet

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Product Name: NCS1 213 a.a. Human  
 Cat. No.: GP24020  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Neuronal Calcium Sensor 1; Frequenin-Like Ubiquitous Protein; Frequenin-Like Protein; Frequenin Homolog; FREQ; FLUP; Frequenin(Drosophila) Homolog; Frequenin Homolog (Drosophila); FREQ; NCS-1; Neuronal calcium sensor 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMGKSNSK LKPEVVEELT RKTYFTEKEV QQWYKGFIKD CPSGQLDAAGFQKIYKQFFP FGDPTKFATF VFNVFDENKD GRIEFSEFIQ ALSVTSRGTL DEKLRFWAFKL YDLNDNGYITRNEMLDIVDA IYQVMVGNTVE LPEEENTPEK RVDRIFAMMDKNADGKLTQ EFQEGSKADP SIVQALS LYD GLV.		
Formulation	NCS1 213 a.a. protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 30% glycerol and 1mM DTT.		

### 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%

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

NCS1 213 a.a. Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 213 amino acids (1-190 a.a) and having a molecular mass of 24.3kDa. NCS1 213 a.a. is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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