Recombinant human NCS1 protein

Catalog Number: ATGP0526

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-190aa

UniProt No.
P62166

NCBI Accession No.
NP_055101

Alternative Names
Neuronal calcium sensor 1, Frequenin homolog, FLuP, FREQ, Neuronal calcium sensor 1 Flup, Freq, frequenin (Drosophila) homolog, Frequenin-like protein, NCS1, Neuronal Calcium Sensor 1.

PRODUCT SPECIFICATION

Molecular Weight
22.9 kDa (198aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Neuronal calcium sensor 1, also known as NCS1, is a member of the neuronal calcium sensor gene family, which encode calcium-binding proteins expressed predominantly in neurons. NCS1 is localized to neuronal cell bodies and axons throughout the brain and spinal cord. It is also expressed in glial cells and in neuroendocrine bovine adrenal chromaffin and PC12 cells. NCS1 is a regulatory protein involved in Ca++-dependent exocytosis of synaptic vesicles and dense core granules. Recombinant human NCS1 fused to His-tag at C-terminus, was

expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

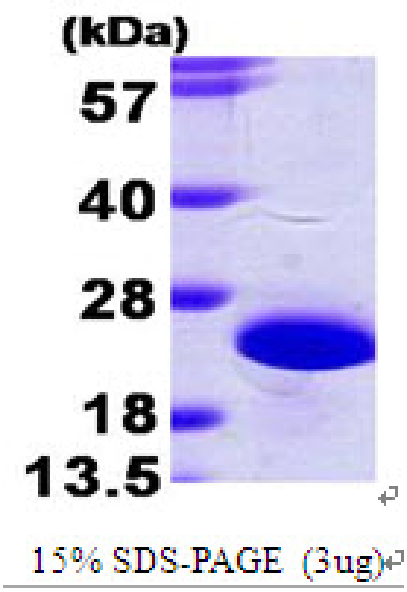
MGKSNSKLKP EVVEELTRKT YFTEKEVQQW YKGFIKDCPS GQLDAAGFQK IYKQFFPFGD PTKFATFVFN VFDENKDGRI EFSEFIQALS VTSRGTLDEK LRWAFKLYDL DNDGYITRNE MLDIVDAIYQ MVGNTVELPE EENTPEKRVD RIFAMMDKNA DGKLTLQEFQ EGSKADPSIV QALSLYDGLV LEHHHHHH

General References

Cox J A., et al. (1994) J Biol Chem. 269:32807-32813.
McFerran., et al. (1998) J Biol Chem. 273:22768-22772.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.