

# Recombinant human Calneuron 1/CALN1 protein

Catalog Number: ATGP0772

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-192aa

### UniProt No.

Q9BXU9

### NCBI Accession No.

NP\_001017440

### Alternative Names

Calcium-binding protein 8, CABP8, Calneuron-1, CaBP8, Calneuron I

## PRODUCT SPECIFICATION

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### Molecular Weight

24.0 kDa (212aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl, 0.1mM PMSF

### Purity

> 90% 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

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### Description

CALN1 is high similarity to the calcium-binding proteins of the calmodulin family. This protein contains two EF-hand domains and potential calcium-binding sites. Also, It negatively regulates Golgi-to-plasma membrane trafficking by interacting with PI4KB and inhibiting its activity. CALN1 play a role in the physiology of neurons and is potentially important in memory and learning. Recombinant human CALN1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MPFHHVTAGL LYKGNLYNRS LSAGSDSEQL ANISVEELDE IREAFRLDR DGNGFISKQE  
LGMAMRSLGY MPSEVELAII MQRDMDGDG QVDFDEFMTI LGPKLVSEEG RDGFLGNTID SIFWQFDMQR ITLEELKHIL  
YHAFRDHLM KDIENIINE EESLNESGN CQTEFEGVHS QKQNRQTCVR KS

### General References

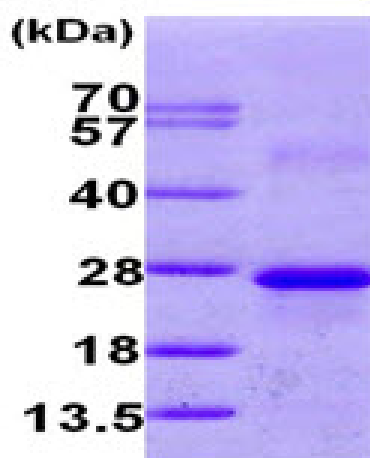
McCue HV., et al. (2009) *Biochem Biophys Res Commun.* 380(4):825-31

Wu Y.-Q., et al. (2006) *Mol. Genet. Metab.* 72:343-350

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)