

Recombinant human Calneuron 1/CALN1 protein

Catalog Number: ATGP0772

PRODUCT INFORMATION

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

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

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 SSGLVPRGSH MPFHHVTAGL LYKGNLYNRS LSAGSDSEQL ANISVEELDE IREAFRVLDR DGNGFISKQE
LGMAMRSLGY MPSEVELAII MQRDMDGDG QVDFDEFMTI LGPKLVSEEG RDGFLGNTID SIFWQFDMQR ITLEELKHIL
YHAFRDHLTM KDIENIIINE EESLNETSGN CQTEFEGVHS QKQNRQTCVR KS

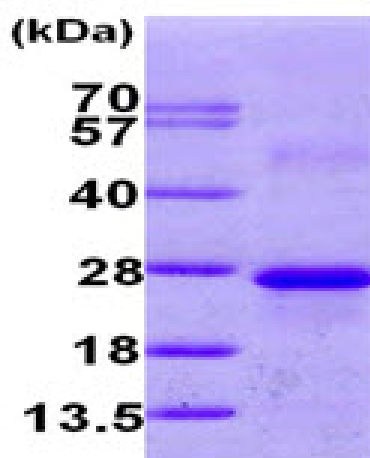
General References

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

SDS-PAGE



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

15% SDS-PAGE (3ug)