# 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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
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**Amino acid Sequence**

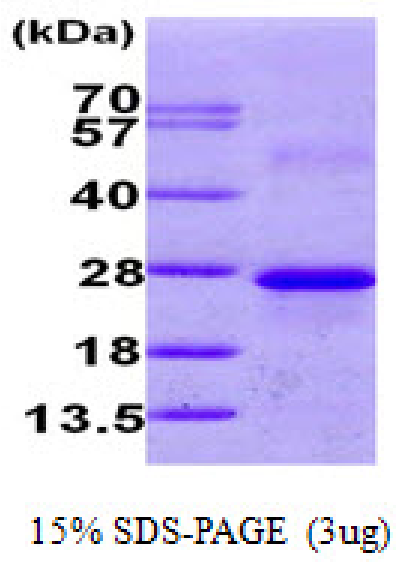
MGSSHHHHHH SSGLVPRGSH MPFHHVTAGL LYKGNYLNRS LSAGSDSEQL ANISVEELDE IREAFRVLDR DGNGFISKQE LGMAMRSLGY MPSEVELAII MQRLDMDGDG QVDFDEFMTI LGPKLVSSEG RDGFLGNTID SIFWQFDMQR ITLEELKHIL YHAFRDHLTM KDIENIIINE EESLNETSGN CQTEFEGVHS QKQNRQTCVR KS

**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**




15% SDS-PAGE (3ug)

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