

Recombinant Human CALN1, His-tagged

Cat. No. CALN1-2869H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CALN1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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, Itnegatively 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.
Sequence	MGSSHHHHHH SSGLVPRGSH MPFHHVTAGL LYKGNLYNRS LSAGSDSEQL ANISVEELDE IREAFRVLDR DGNGFISKQE LGMAMRSLGY MPSEVELAII MQRLDMDGDG QVDFDEFMTI LGPKLVSSEG RDGFLGNTID SIFWQFDMQR ITLEELKHIL YHAFRDHLTM KDIENIIINE EESLNETSGN CQTEFEGVHS QKQNRQTCVR KS.
Purity	> 90% by SDS – PAGE.
MW	24.0 kDa (212aa) confirmed by MALDI-TOF.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl, 0.1mM PMSF.

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Concentration	0.5mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	CALN1 calneuron 1 [Homo sapiens]
Synonyms	CALN1; calneuron 1; OTTHUMP00000160216; OTTHUMP00000198477; OTTHUMP00000198493; OTTHUMP00000210382; OTTHUMP00000210383; calcium-binding protein 8; calcium-binding protein CABP8; calneuron I; calneuron-; CABP8; CALN1
Gene ID	83698
mRNA Refseq	NM_001017440
Protein Refseq	NP_001017440
MIM	607176
UniProt ID	Q9BXU9
Chromosome Location	7q11
Function	calcium ion binding