

CALN1 Human

Description: CALN1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 212 amino acids (1-192 a.a.) and having a molecular mass of 24kDa. The CALN1 is purified by proprietary chromatographic techniques.

Catalog #: PRPS-286

For research use only.

Synonyms: Calcium-binding protein 8, CaBP8, Calneuron I, Calneuron-1, CALN1, CABP8.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MPFHHVTAGL LYKGNLYNRS
LSAGSDSEQL ANISVEELDE IREAFRLDR DGNGFISKQE LGMAMRSLGY MPSEVELAII
MQRLDMDGDG QVDFDEFMTI LGPKLVSEEG RDGFLGNTID SIFWQFDMQR ITLEELKHIL
YHAFRDHLTM KDIENIINE EESLNETSGN CQTEFEGVHS QKQNRQTCVR KS.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The CALN1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 2mM DTT, 50mM NaCl and 0.1mM PMSF.

Stability:

CALN1 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

CALN1 is highly similar to the calcium-binding proteins of the calmodulin family. The CALN1 protein contains two EF-hand domains and potential calcium-binding sites. Also, CALN1 negatively regulates Golgi-to-plasma membrane trafficking by interacting with PI4KB and inhibiting its activity. CALN1 has a role in the physiology of neurons and is potentially significant in memory and learning.

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