

# Recombinant human NCALD protein

Catalog Number: ATGP0895

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-193aa

### UniProt No.

P61601

### NCBI Accession No.

NP\_001035720

### Alternative Names

Neurocalcin-delta, MGC33870, MGC74858, Neurocalcin delta

## PRODUCT SPECIFICATION

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### Molecular Weight

24.4 kDa (213aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 100mM NaCl

### 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

Neurocalcin-delta, also known NCALD, is a member of the neuronal calcium sensor (NCS) family. NCALD is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. This protein is thought to be a regulator of signal transduction by G protein-coupled receptor. Recombinant human NCALD 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 MGKQNSKLRP EVMQDLLEST DFTEHEIQEW YKGFLRDCPS GHLSMEEFKK IYGNFFPYGD  
ASKFAEHVFR TFDANGDGTI DFREFIALS VTSRGKLEQK LKWAFSMYDL DGNGYISKAE MLEIVQAIYK MVSSVMKMPE  
DESTPEKRTE KIFRQMDTNR DGKLSLEEFI RGAKSDPSIV RLLQCDPSSA GQF

### General References

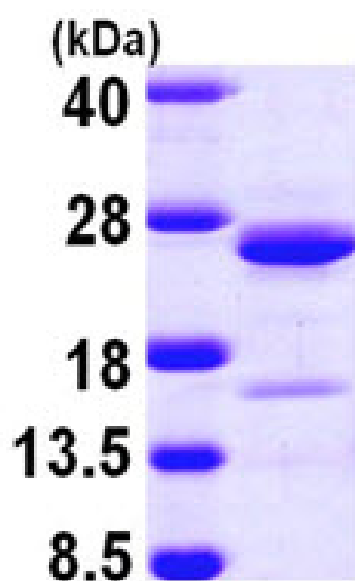
Burqoyne RD., et al. (2007) Nat Rev Neurosci. 8(3):182-93.

Burqoyne RD., et al. (2004) Trends Neurosci. 27(4): 203-9

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)