

# Recombinant human Calbindin1 protein

Catalog Number: ATGP0381

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-261aa

### UniProt No.

P05937

### NCBI Accession No.

NP\_004920

### Alternative Names

CAB27, Calbindin D28, D-28K, CALB1, calbindin 1 28kDa, CALB, Calbindin1,

## PRODUCT SPECIFICATION

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### Molecular Weight

30 kDa (261aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 2mM EDTA

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### 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

Calbindin 1 is a calcium binding protein belonging to the troponin C superfamily. Calbindin is expressed in neural tissues. It plays an essential role in calcium regulation (including calcium transport and uptake, calcification of bone and teeth) and calcium related signalling in neurons and transiently in embryological development. This calbindin also has a role in protecting neurons from apoptotic cell death. Disregulation of this calbindin protein

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relates to epilepsy, amyotrophic lateral sclerosis, Huntington's disease. Recombinant human Calbindin1 was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

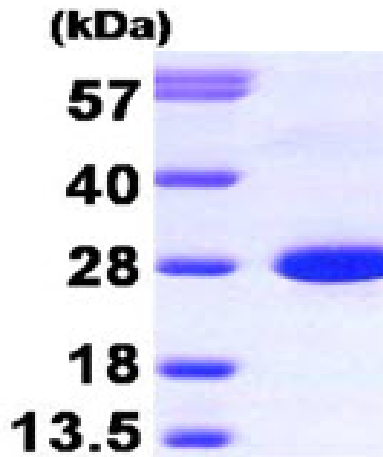
MAESHLQSSL ITASQFFEIW LHFADADGSGY LEGKELQNLI QELQQARKKA GLELSPEMKT FVDQYGQRDD GKIGIVELAH  
VLPTEENFLL LFRCQQLKSC EEFMKTWRKY DTDHSGFIET EELKNFLKDL LEKANKTVDD TKLAEYTDLM LKLFDSNNDG  
KLELTEMARL LPVQENFLK FQGIKMCCKE FNKAFELYDQ DGNGYIDENE LDALLKDLCE KKNQDLINN ITTYKKNIMA  
LSDGGKLYRT DLALILCAGD N

## General References

Heizmann CW., et al. (1988) J Cardiovasc Pharmacol. 5:S30-7.  
Kaqi u., et al. (1988) Cell Tissue Res. 252(2):359-65.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)