

# Recombinant human Calbindin 2/CALB2 protein

Catalog Number: ATGP0694

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-271aa

### UniProt No.

P22676

### NCBI Accession No.

AAH15484

### Alternative Names

CR, Calretinin, CALB2, CAL2, CAB29, 29 kDa calbindin

## PRODUCT SPECIFICATION

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### Molecular Weight

33.7 kDa (291aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### 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

CALB2 is an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and

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some cancers. Recombinant human CALB2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MAGPQQPPY LHLAELTASQ FLEIWKHFDA DGNGYIEGKE LENFFQELEK ARKGSGMMSK  
SDNFGEKMKE FMQKYDKNSD GKIEMAELAQ ILPTEENFLL CFRQHVGSSST EFMEAWRKYD TDRSGYIEAN ELKGFLSDLL  
KKANRPYDEP KLQEYTQITL RMFDLNGDGK LGLSEMSRLL PVQENFLLKF QGMKLTSEEF NAIFTFYDKD RSGYIDEHEL  
DALLKDLYEK NKKEMNIQQL TNYRKSVM SL AEAGKLYRKD LEIVLCSEPP M

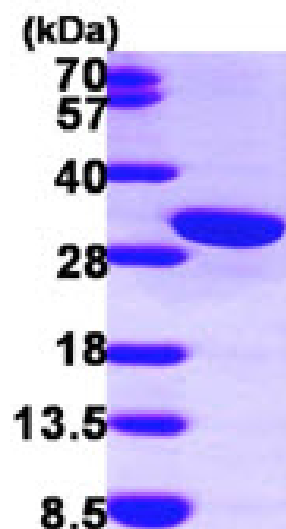
### General References

Rogers J.H., et al. (1987) J. Cell Biol. 105(3):1343-53.

Dreher B., et al. (1996) J. Comp. Neurol. 376(2):223-40

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)