

# Recombinant human Calbindin 2/CALB2 protein

Catalog Number: ATGP0694

## PRODUCT INFORMATION

**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

**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

**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

# Recombinant human Calbindin 2/CALB2 protein

Catalog Number: ATGP0694

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

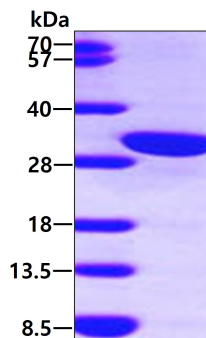
<MGSSHHHHHH SSGLVPRGSH> MAGPQQPPY LHLAELTASQ FLEIWKHFDA DGNGYIEGKE LENFFQELEK  
ARKGSGMMSK SDNFGEKMKE FMQKYDKNSD GKIEMAELAQ ILPTEENFLL CFRQHVGSSST EFMEAWRKYD TDRSGYIEAN  
ELKGFLSDLL KKANRPYDEP KLQEYQTIL RMFDLNGDGK LGLSEMSRLL PVQENFLLKF QGMKLTSEEF NAIFTFYDKD  
RSGYIDEHEL DALLKDLYEK NKKEMNIQQL TNYRKSVM 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.