

Recombinant human Calbindin1 protein

Catalog Number: ATGP0381

PRODUCT INFORMATION

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

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

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 LHFADGSGY LEGKELQNLI QELQQARKKA GLELSPMKT FVDQYGQRDD GKIGIVELAH
VLPTEENFLL LFRCQQLKSC EEFMKTWRKY DTDHSGFIET EELKNFLKDL LEKANKTVDD TKLAEYTDLM LKLFDSNNDG
KLELTEMARL LPVQENFLK FQGIKMCCKE FNKAFELYDQ DGNGYIDENE LDALLKDLCE KNKQDLINN ITTYKKNIMA
LSDGGKLYRT DLALILCAGD N

General References

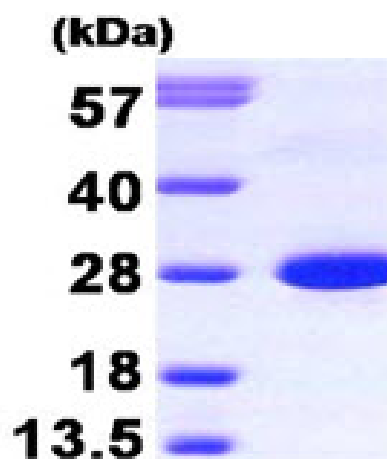
Heizmann CW., et al. (1988) J Cardiovasc Pharmacol. 5:S30-7.

Kagi 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)