Calbindin-1 Recombinant Protein | CALB1 recombinant protein

Recombinant Human Calbindin-1

CATALOG #	HOST
AAA38699	**E Coli**

PRODUCT SYNONYMS

Calbindin-1; Recombinant Human Calbindin-1; CALB1 Human; Calbindin-1 Human Recombinant; Calbindin; Vitamin D-dependent calcium-binding protein; avian-type; Calbindin D28; D-28K; CALB1; CAB27; CALB; calbindin 1 28kDa; CALB1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The CALB1 protein solution contains 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 10% glycerol and 2mM EDTA. Sterile Filtered colorless solution.
Sequence	MAESHLQSSL ITASQFFEIW LHFDADGSGY LEGKELQNLI QELQQARKKA GLELSPEMKT FVDQYGQRDD GKIGIVELAH VLPTEENFLL LFRCQQLKSC EEFMKTWRKY DTDHSGFIET EELKNFLKDL LEKANKTVDD TKLAEYTDLM LKLFDSNNDG KLELTEMARL LPVQENFLLK FQGIKMCGKE FNKAFELYDQ DGNGYIDENE LDALLKDLCE KNKQDLDINN ITTYKKNIMA LSDGGKLYRT DLALILCAGD N
Sequence Length	261

ADDITIONAL INFORMATION

Related Product Information for CALB1 recombinant protein	**Description:** CALB1 Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 261 amino acids (1-261 a.a.) and having a molecular mass of 30kDa.The CALB1 is purified by proprietary chromatographic techniques. **Introduction:** Calbindin 1 (CALB1) is a calcium binding protein that is a member of the troponin C superfamily. CALB1 plays a vital role in calcium regulation (including calcium transport and uptake, calcification of bone and teeth) and calcium associated signaling in neurons and transiently in embryological development. CALB1 also has a role in protecting neurons from apoptotic cell death. CALB1 buffers cytosolic calcium and may stimulate a membrane Ca2+-ATPase and a 3',5'-cyclic nucleotide phosphodiesterase. The biological function of CALB1 seems to be tied to the redox state of its five cysteine residues.CALB1 has 4 active calcium-binding domains, and 2 modified domains that seemingly have lost their calcium-binding ability. CALB1 is expressed in neural tissues. In the brain, the CALB1 synthesis is independent of vitamin-D-derived hormones. Disregulation of the CALB1 is associated with epilepsy, amyotrophic lateral sclerosis, Huntington's disease. The neurons in brains of Huntington disease patients are calbindin-depleted.
Product Categories/Family for CALB1 recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins; Calbindin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826655
NCBI GeneID	793
NCBI Accession #	NP_004920.1
NCBI GenBank Nucleotide #	NM_004929.3
UniProt Accession #	P05937; B2R696; B7Z9J4

Molecular Weight	23,609 Da
NCBI Official Full Name	calbindin
NCBI Official Synonym Full Names	calbindin 1, 28kDa
NCBI Official Symbol	CALB1
NCBI Official Synonym Symbols	CALB; D-28K
NCBI Protein Information	calbindin; RTVL-H protein; calbindin 1, (28kD); calbindin D28; vitamin D-dependent calcium-binding protein, avian-type
UniProt Protein Name	Calbindin
UniProt Gene Name	**CALB1**
UniProt Synonym Gene Names	CAB27
UniProt Entry Name	CALB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/calb1-recombinant-protein-e-coli/38699