

Recombinant Human Calbindin 1, 28kDa

Cat. No. CALB1-1393H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Calbindin1 was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =30 kDa (261aa).
Species	Human
Source	E.coli
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 relates to epilepsy, amyotrophic lateral sclerosis, Huntington's disease.
Amino Acid Sequence	MAESHLQSSL ITASQFFEIW LHFDADGSGY LEGKELQNLI QELQQARKKA GLELSPMKKT FVDQYGQRDD GKIGIVELAH VLPTEENFLL LFRCQQLKSC EEFMKTWRKY DTDHSGFIET EELKNFLKDL LEKANKTVDD TKLAEYTDLM LKLFDNSNNDG KLELTEMARL LPVQENFLLK FQGIKMCGKE FNKAFELYDQ DGNGYIDENE LDALLKDLCE KNKQDLINN ITTYKKNIMA LSDGGKLYRT DLALILCAGD N
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol, 2mM EDTA.

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Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	CALB1 calbindin 1, 28kDa [Homo sapiens]
Synonyms	CALB1; calbindin 1, 28kDa; CALB; calbindin 1; RTVL-H protein; calbindin 1, (28kD); CAB27; D-28K; Calbindin D28; Vitamin D-dependent calcium-binding protein, avian-type; Calbindin
Gene ID	793
mRNA Refseq	NM_004929
Protein Refseq	NP_004920
MIM	114050
UniProt ID	P05937
Chromosome Location	8p11
Function	calcium ion binding; protein binding; vitamin D binding