

## Recombinant Human Calbindin 1, 28kDa

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

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant human Calbindin1 was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =30 kDa (261aa).  |
| <b>Species</b>             | Human  |
| <b>Source</b>              | E.coli   |
| <b>Description</b>         | 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. |
| <b>Amino Acid Sequence</b> | MAESHLQSSL ITASQFFEIW LHFADGSGY LEGKELQNLI QELQQARKKA<br>GLELSPEMKT FVDQYGQRDD GKIGIVELAH VLPTEENFLL LFRCQQLKSC<br>EEFMKTWRKY DTDHSGFIET EELKNFLKDL LEKANKTVDD TKLAEYTDLM<br>LKLFDSDNDG KLELTEMARL LPVQENFLLK FQGIKMGKE FNKAFELYDQ<br>DGNGYIDENE LDALLKDLCE KNKQDLINN ITTYKKNIMA LSDGGKLYRT<br>DLALILCAGD N  |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol, 2mM EDTA.  |

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|----------------------|---|
| <b>Purity</b>        | > 95% by SDS – PAGE.  |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).   |
| <b>Storage</b>       | 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

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | CALB1 calbindin 1, 28kDa [ Homo sapiens ]  |
| <b>Synonyms</b>            | 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 |
| <b>Gene ID</b>             | 793  |
| <b>mRNA Refseq</b>         | NM_004929  |
| <b>Protein Refseq</b>      | NP_004920  |
| <b>MIM</b>                 | 114050   |
| <b>UniProt ID</b>          | P05937   |
| <b>Chromosome Location</b> | 8p11   |
| <b>Function</b>            | calcium ion binding; protein binding; vitamin D binding  |

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