

# Recombinant Human CALB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CALB1-6308H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CALB1 MS Standard C13 and N15-labeled recombinant protein (NP_004920) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. Originally described as a 27 kDa protein, it is now known to be a 28 kDa protein. It contains four active calcium-binding domains, and has two modified domains that are thought to have lost their calcium binding capability. This protein is thought to buffer entry of calcium upon stimulation of glutamate receptors. Depletion of this protein was noted in patients with Huntington disease. |
| <b>Molecular Mass</b>   | 30 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAESHLQSSLITASQFFEIWLHFDADGSGYLEGKELQNLIQELQQARKKAGLELSPE<br>MKTFFVDQYGQRDDGKIGIVELAHVLPTEENFLLLFRCCQLKSCEEFMKTWRKYDTD<br>HSGFIETEELKNFLKDLLEKANKTVDDTKLAEYTDMLKLFDSSNNDGKLELTEMARLL<br>PVQENFLLKFQGIKMGKEFNKAFELYDQDGNGYIDENELDALLKDLCEKNKQDLDI<br>NNITTYKKNIMALSDGGKLYRTDLALILCAGDNTRTRPLEQKLISEEDLAANDILDYKD<br>DDDKV                                                                                                                                                                                                              |

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

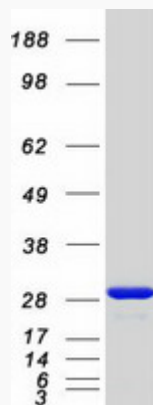
## GENE INFORMATION

|                        |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CALB1 calbindin 1 [ Homo sapiens (human) ]                                                                                                                      |
| <b>Official Symbol</b> | CALB1                                                                                                                                                           |
| <b>Synonyms</b>        | CALB1; calbindin 1, 28kDa; CALB; calbindin; D-28K; calbindin D28; RTVL-H protein; calbindin 1, (28kD); vitamin D-dependent calcium-binding protein, avian-type; |
| <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                                                                                                                                                          |

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**SDS-PAGE**

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