

## Recombinant Human CLSTN1 Protein, MYC/DDK-tagged

**Cat. No.** CLSTN1-3262H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Human CLSTN1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene is a member of the calsynenin family, a subset of the cadherin superfamily. The encoded transmembrane protein, also known as alcadein-alpha, is thought to bind to kinesin-1 motors to mediate the axonal anterograde transport of certain types of vesicle. Amyloid precursor protein (APP) is trafficked via these vesicles and so this protein is being investigated to see how it might contribute to the mechanisms underlying Alzheimer's disease. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 109.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### GENE INFORMATION

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|------------------------|--------------------------------------------------------------------------|
| <b>Gene Name</b>       | CLSTN1 calsyntenin 1 [ Homo sapiens ]                                    |
| <b>Official Symbol</b> | CLSTN1                                                                   |
| <b>Synonyms</b>        | ALC-ALPHA; alcalpha1; alcalpha2; CDHR12; CST-1; CSTN1; PIK3CD; XB31alpha |
| <b>Gene ID</b>         | 22883                                                                    |
| <b>mRNA Refseq</b>     | NM_001009566                                                             |
| <b>Protein Refseq</b>  | NP_001009566                                                             |
| <b>MIM</b>             | 611321                                                                   |
| <b>UniProt ID</b>      | O94985                                                                   |

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