

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

**Cat. No.** NCALD-6238H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | NCALD MS Standard C13 and N15-labeled recombinant protein (NP_001035719) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | This gene encodes a member of the neuronal calcium sensor (NCS) family of calcium-binding proteins. The protein contains an N-terminal myristoylation signal and four EF-hand calcium binding loops. The protein is cytosolic at resting calcium levels; however, elevated intracellular calcium levels induce a conformational change that exposes the myristoyl group, resulting in protein association with membranes and partial co-localization with the perinuclear trans-golgi network. The protein is thought to be a regulator of G protein-coupled receptor signal transduction. Several alternatively spliced variants of this gene have been determined, all of which encode the same protein; additional variants may exist but their biological validity has not been determined. |
| <b>Molecular Mass</b>   | 22.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MGKQNSKLRPEVMQDLLESTDFTEHEIQEWYKGFLRDCPSGHLSMEEFKKIYGNFF<br>PYGDASKFAEHVFRFTDANGDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDL DGN<br>GYISKAEMLEIVQAIYKMVSSVMKMPPEDESTPEKRTEKIFRQMDTNRDGKLSMEEFI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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RGAKSDPSIVRLLQCDPSSAGQFTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <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.                                                    |

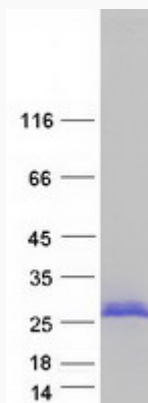
## GENE INFORMATION

|                        |                                                                  |
|------------------------|------------------------------------------------------------------|
| <b>Gene Name</b>       | NCALD neurocalcin delta [ Homo sapiens (human) ]                 |
| <b>Official Symbol</b> | NCALD                                                            |
| <b>Synonyms</b>        | NCALD; neurocalcin delta; neurocalcin-delta; MGC33870; MGC74858; |
| <b>Gene ID</b>         | 83988                                                            |
| <b>mRNA Refseq</b>     | NM_001040629                                                     |
| <b>Protein Refseq</b>  | NP_001035719                                                     |
| <b>MIM</b>             | 606722                                                           |
| <b>UniProt ID</b>      | P61601                                                           |

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**SDS-PAGE**

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