

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

**Cat. No.** MAL-3387H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | MAL MS Standard C13 and N15-labeled recombinant protein (NP_071885) 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 highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The protein has been localized to the endoplasmic reticulum of T-cells and is a candidate linker protein in T-cell signal transduction. In addition, this proteolipid is localized in compact myelin of cells in the nervous system and has been implicated in myelin biogenesis and/or function. The protein plays a role in the formation, stabilization and maintenance of glycosphingolipid-enriched membrane microdomains. Down-regulation of this gene has been associated with a variety of human epithelial malignancies. Alternative splicing produces four transcript variants which vary from each other by the presence or absence of alternatively spliced exons 2 and 3. |
| <b>Molecular Mass</b>   | 5.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MAPAAATGGSTLPSGFSVFTTLPDLLFIFEVFSYIATLLYVVHAVFSLIRWKSSTRTR<br>PLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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

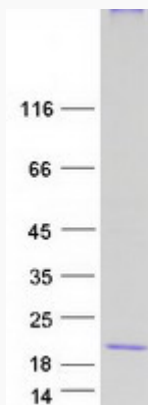
## GENE INFORMATION

|                        |                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | MAL mal, T cell differentiation protein [ Homo sapiens (human) ]                                                                                         |
| <b>Official Symbol</b> | MAL                                                                                                                                                      |
| <b>Synonyms</b>        | MAL; mal, T-cell differentiation protein; myelin and lymphocyte protein; T-cell differentiation protein MAL; T-lymphocyte maturation-associated protein; |
| <b>Gene ID</b>         | 4118                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_022440                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_071885                                                                                                                                                |
| <b>MIM</b>             | 188860                                                                                                                                                   |
| <b>UniProt ID</b>      | P21145                                                                                                                                                   |

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**SDS-PAGE**

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