

## Active Recombinant Human CLEC5A Protein, Tyr26-Lys188, N-9×His tagged

**Cat. No.** CLEC5A-12H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Product Overview</b> | Recombinant Human MDL-1/CLEC5A Protein (Tyr26-Lys188) with an N-terminal 9-His tag was expressed in Mouse myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | NS0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Tyr26-Lys188                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | This gene encodes a member of the C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily. Members of this family share a common protein fold and have diverse functions, such as cell adhesion, cell-cell signalling, glycoprotein turnover, and roles in inflammation and immune response. The encoded type II transmembrane protein interacts with dnax-activation protein 12 and may play a role in cell activation. Alternative splice variants have been described but their full-length sequence has not been determined. |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. When Recombinant Human Galectin-9 is coated at 0.5 µg/mL (100 µL/well), the concentration of Recombinant Human MDL-1/CLEC5A that produces 50 % optimal binding response is typically 3-18 ng/mL.                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 20 kDa<br>SDS-PAGE: 34-45 kDa, reducing conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>N-terminal Sequence Analysis</b> | His                                                                                                                                                                                                                                                                                                      |
| <b>Endotoxin</b>                    | < 0.10 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                           |
| <b>Purity</b>                       | > 95 %, by SDS-PAGE with silver staining                                                                                                                                                                                                                                                                 |
| <b>Storage</b>                      | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70 centigrade as supplied.<br>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br>3 months, -20 to -70 centigrade under sterile conditions after reconstitution. |
| <b>Storage Buffer</b>               | Lyophilized from a 0.2 μm filtered solution in PBS.                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>               | Reconstitute at 100 μg/mL in PBS.                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>                     | The product is shipped at ambient temperature.                                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CLEC5A C-type lectin domain family 5, member A [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Official Symbol</b> | CLEC5A                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | CLEC5A; C-type lectin domain family 5, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 5 , CLECSF5; C-type lectin domain family 5 member A; MDL 1; C-type lectin superfamily member 5; myeloid DAP12-associating lectin 1; myeloid DAP12-associating lectin-1; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 5; MDL1; MDL-1; CLECSF5; MGC138304 |

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|----------------|-----------|
| Gene ID        | 23601     |
| mRNA Refseq    | NM_013252 |
| Protein Refseq | NP_037384 |
| MIM            | 604987    |
| UniProt ID     | Q9NY25    |

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