

## Recombinant Human CLEC4A Protein, His-tagged

**Cat. No.** CLEC4A-110H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human CLEC4A Protein with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | C-type lectin receptor that binds carbohydrates mannose and fucose but also weakly interacts with N-acetylglucosamine (GlcNAc) in a Ca <sup>2+</sup> -dependent manner. Involved in regulating immune reactivity. Once triggered by antigen, it is internalized by clathrin-dependent endocytosis and delivers its antigenic cargo into the antigen presentation pathway resulting in cross-priming of CD8 <sup>+</sup> T cells. This cross-presentation and cross-priming are enhanced by TLR7 and TLR8 agonists with increased expansion of the CD8 <sup>+</sup> T cells, high production of IFNG and TNF with reduced levels of IL4, IL5 and IL13. In plasmacytoid dendritic cells, inhibits TLR9-mediated IFNA and TNF production. May be involved via its ITIM motif (immunoreceptor tyrosine-based inhibitory motifs) in the inhibition of B-cell-receptor-mediated calcium mobilization and protein tyrosine phosphorylation. |
| <b>Molecular Mass</b>   | ~24 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | <p>MQKYSQLEKKTTELKLVHTTLECVKKNMPVEETAWSCCPKNWKSFSSNCYFISTES</p> <p>ASWQDSEKDCARMEAHLLVINTQEEQDFIFQNLQEESAYFVGLSDPEGQRHWQWV</p> <p>DQTPYNESSTFWHPREPSDPNERCVVLNFRKSPKRWGWNDVNCCLGPQRSVCEM</p> <p>MKIHL</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE). |
| <b>Notes</b>          | For research use only, not for use in diagnostic procedure.                                                                                   |
| <b>Storage</b>        | Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.                                    |
| <b>Storage Buffer</b> | PBS, 4M Urea, pH7.4                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CLEC4A C-type lectin domain family 4, member A [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b> | CLEC4A                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | CLEC4A; C-type lectin domain family 4, member A; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 6 , CLECSF6; C-type lectin domain family 4 member A; DCIR; DDB27; C-type lectin DDB27; lectin-like immunoreceptor; dendritic cell immunoreceptor; C-type lectin superfamily member 6; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 6; LLIR; CLECSF6; HDCGC13P; |
| <b>Gene ID</b>         | 50856                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_016184                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_057268                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 605306                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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UniProt ID

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