

Recombinant Human CLEC4A Protein, His-tagged

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

SPECIFICATION

Product Overview Recombinant Human CLEC4A Protein with His tag was expressed in E. coli.

Species Human

Source E.coli

Description

C-type lectin receptor that binds carbohydrates mannose and fucose but also weakly interacts with N-acetylglucosamine (GlcNAc) in a Ca²⁺-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⁺ T cells. This cross-presentation and cross-priming are enhanced by TLR7 and TLR8 agonists with increased expansion of the CD8⁺ 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.

Molecular Mass ~24 kDa

AA Sequence

MQKYSQLEKKTTELKLVHTTLECVKKNMPVEETAWSCCPKNWKSFSSNCYFISTES
ASWQDSEKDCARMEAHLLVINTQEEQDFIFQNLQEESAYFVGLSDPEGQRHWQWV
DQTPYNESSTFWHPREPSDPNERCVVLNFRKSPKRWGWNDVNCLGPQRSVCEM
MKIHL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	CLEC4A C-type lectin domain family 4, member A [Homo sapiens (human)]
Official Symbol	CLEC4A
Synonyms	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;
Gene ID	50856
mRNA Refseq	NM_016184
Protein Refseq	NP_057268
MIM	605306

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UniProt ID

Q9UMR7

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