

Recombinant Human CLEC4D Protein, His-tagged

Cat. No. CLEC4D-058H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CLEC4D Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Calcium-dependent lectin that acts as a pattern recognition receptor (PRR) of the innate immune system: recognizes damage-associated molecular patterns (DAMPs) of pathogen-associated molecular patterns (PAMPs) of bacteria and fungi. The PAMPs include alpha-mannans on C.albicans hyphae and mycobacterial trehalose 6,6'-dimycolate (TDM). Interacts with signaling adapter Fc receptor gamma chain/FCER1G, likely via CLEC4E, to form a functional complex in myeloid cells. Binding of mycobacterial TDM or C.albicans alpha-mannans to this receptor complex leads to phosphorylation of the immunoreceptor tyrosine-based activation motif (ITAM) of FCER1G, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen-specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes. The heterodimer formed with CLEC6A is active against fungal infection. Functions as an endocytic receptor. May be involved in antigen uptake at the site of infection, either for clearance of the antigen, or for processing and further presentation to T-cells.
Molecular Mass	~19 kDa

 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

AA Sequence	CLVTHHNFSRCKRGTGVHKLHAKLKCIKEKSELKSAEGSTWNCCPIDWRAFQSN CYFPLTDNKTWAESERNCSGMGAHLMTISTEAEQNFIQFLDRRLSYFLGLRDENAK GQWRWVDQTPFNPRRVFWHKNEPDNSQGENCVVLVYNQDKWAWNDVPCNFEAS RICKIPGTTLN
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	CLEC4D C-type lectin domain family 4, member D [Homo sapiens (human)]
Official Symbol	CLEC4D
Synonyms	CLEC4D; C-type lectin domain family 4, member D; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 8 , CLECSF8; C-type lectin domain family 4 member D; Mpcl; C-type lectin receptor; macrophage C-type lectin; C-type lectin-like receptor 6; C-type lectin superfamily member 8; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 8; MCL; MPCL; CLEC6; CLEC-6; CLECSF8; MGC40078;
Gene ID	338339
mRNA Refseq	NM_080387

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Protein Refseq	NP_525126
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MIM	609964
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UniProt ID	Q8WXI8
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