

Recombinant Human CLEC4E Protein (G74-L219), Flag tagged

Cat. No. CLEC4E-0194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Mincle(G74-L219 end)-Flag Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	G74-L219
Description	Calcium-dependent lectin that acts as a pattern recognition receptor (PRR) of the innate immune system: recognizes damage-associated molecular patterns (DAMPs) of abnormal self and pathogen-associated molecular patterns (PAMPs) of bacteria and fungi. The PAMPs notably include mycobacterial trehalose 6,6'-dimycolate (TDM), a cell wall glycolipid with potent adjuvant immunomodulatory functions. Interacts with signaling adapter Fc receptor gamma chain/FCER1G to form a functional complex in myeloid cells. Binding of mycobacterial trehalose 6,6'-dimycolate (TDM) 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. Also recognizes alpha-mannose residues on pathogenic fungi of the genus Malassezia and mediates macrophage activation. Through recognition of DAMPs released upon nonhomeostatic cell death, enables immune sensing of damaged self and promotes inflammatory cell infiltration into the damaged tissue.

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Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	CLEC4E C-type lectin domain family 4, member E [Homo sapiens (human)]
Official Symbol	CLEC4E
Synonyms	CLEC4E; C-type lectin domain family 4, member E; C type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, CLECSF9; C-type lectin domain family 4 member E; mincle; C-type lectin superfamily member 9; macrophage-inducible C-type lectin; C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 9; MINCLE; CLECSF9;
Gene ID	26253
mRNA Refseq	NM_014358

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Protein Refseq	NP_055173
MIM	609962
UniProt ID	Q9ULY5

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