

Recombinant Mouse Clec4d Protein, Myc/DDK-tagged

Cat. No. Clec4d-2186M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length C-type lectin domain family 4, member d (Clec4d), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	A calcium-dependent lectin involved in innate recognition of pathogen-associated molecular patterns (PAMPs). Interacts with signaling adapter Fc receptor gamma chain/FCER1G, likely via CLEC4E, to form a functional complex in antigen presenting 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. 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	25.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Clec4d C-type lectin domain family 4, member d [<i>Mus musculus</i> (house mouse)]
Official Symbol	Clec4d
Synonyms	CLEC4D; C-type lectin domain family 4, member d; C-type lectin domain family 4 member D; macrophage C-type lectin; C-type lectin superfamily member 8; C-type lectin, superfamily member 8; macrophage-restricted C-type lectin; C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 8; mcl; Mpcl; Clecsf8; MGC117678
Gene ID	17474
mRNA Refseq	NM_001163161
Protein Refseq	NP_001156633
UniProt ID	Q9Z2H6