

## CLEC4C Protein, Human (His-SUMO)

Cat. No.:	HY-P72014
Synonyms:	CLEC4C; BDCA2; CLECSF11; CLECSF7; DLEC; HECL; UNQ9361/PRO34150C-type lectin domain family 4 member C; Blood dendritic cell antigen 2; BDCA-2; C-type lectin superfamily member 7; Dendritic lectin; CD antigen CD303
Species:	Human
Source:	E. coli
Accession:	Q8WTT0 (N45-I213)
Gene ID:	170482
Molecular Weight:	Approximately 36.0 kDa

### PROPERTIES

AA Sequence	<p>N F M Y S K T V K R    L S K L R E Y Q Q Y    H P S L T C V M E G    K D I E D W S C C P</p> <p>T P W T S F Q S S C    Y F I S T G M Q S W    T K S Q K N C S V M    G A D L V V I N T R</p> <p>E E Q D F I I Q N L    K R N S S Y F L G L    S D P G G R R H W Q    W V D Q T P Y N E N</p> <p>V T F W H S G E P N    N L D E R C A I I N    F R S S E E W G W N    D I H C H V P Q K S</p> <p>I C K M K K I Y I</p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized CLEC4C protein at 2 µg/mL can bind human IgG, the EC <sub>50</sub> of human IgG is 3.358-4.383 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The CLEC4C protein functions as a lectin-type cell surface receptor and is implicated in antigen capturing by dendritic cells. It specifically recognizes non-sialylated galactose-terminated biantennary glycans that contain the trisaccharide epitope Gal(beta1-3/4)GlcNAc(beta1-2)Man. Additionally, CLEC4C binds to serum IgG and efficiently targets ligands into antigen-processing and peptide-loading compartments for presentation to T-cells. Notably, it may mediate potent inhibition of the induction of IFN-alpha/beta expression in plasmacytoid dendritic cells and act as a signaling receptor, activating protein-
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tyrosine kinases and mobilizing intracellular calcium. The protein forms homodimers, underscoring its potential significance in cellular signaling and immune response modulation.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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