

CLEC4C Protein, Human (HEK293, His)

Cat. No.:	HY-P71679
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:	HEK293
Accession:	Q8WTT0 (N45-I213)
Gene ID:	170482
Molecular Weight:	Approximately 24.0 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>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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 ₂ 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	<p>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(β1-3/4)GlcNAc(β1-2)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-α/β expression in plasmacytoid dendritic cells and act as a signaling receptor, activating protein-tyrosine kinases and mobilizing intracellular calcium. The protein forms homodimers, underscoring its potential significance in cellular signaling and immune response modulation.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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