

## CLEC4C Protein, Cynomolgus (HEK293, His)

<b>Cat. No.:</b>	HY-P78590
<b>Synonyms:</b>	DLEC; CLEC4C; BDCA-2; CD303; CLECSF11; CLECSF7; HECL
<b>Species:</b>	Cynomolgus
<b>Source:</b>	HEK293
<b>Accession:</b>	A0A2K5UWP4 (Y48-I212)
<b>Gene ID:</b>	102147129
<b>Molecular Weight:</b>	28-38 kDa

### PROPERTIES

<b>Biological Activity</b>	Immobilized Cynomolgus BDCA-2, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-BDCA-2 Antibody, hFc Tag with the EC <sub>50</sub> of 4.8ng/ml determined by ELISA.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution in PBS, 300mM L-arginine, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	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-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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA