Human CLEC4C / BDCA2 Protein, Fc Tag

Catalog # CLC-H5254

Synonym

DLEC,CLEC4C,BDCA-2,CD303,CLECSF11,CLECSF7, HECL

Source

Human CLEC4C, Fc Tag (CLC-H5254) is expressed from human 293 cells (HEK293). It contains AA Asn 45 - Ile 213 (Accession # Q8WTT0-1). Predicted N-terminus: Pro

Molecular Characterization

Fc(Pro 100 - Lys 330) P01857	CLEC4C(Asn 45 - Ile 213) Q8WTT0-1

This protein carries a human IgG1 Fc tag at the N-terminus.

The protein has a calculated MW of 46.4 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

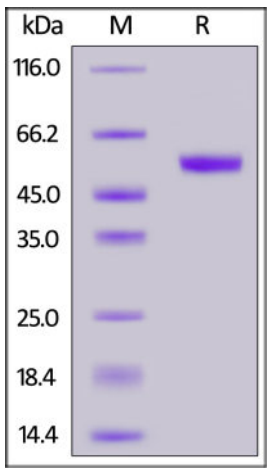
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CLEC4C, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Background

CLEC4C (C-type lectin domain family 4 member C), also known as BDCA2, CLECSF11, CLECSF7, DLEC and CD303. Lectin-type cell surface receptor which may play a role in antigen capturing by dendritic cell. Specifically recognizes non-sialylated galactose-terminated biantennary glycans containing the trisaccharide epitope Gal(beta1-3/4)GlcNAc(beta1-2)Man. Binds to serum IgG. Efficiently targets ligand into antigen-processing and peptide-loading compartments for presentation to T-cells. May mediate potent inhibition of induction of IFN-alpha/beta expression in plasmacytoid dendritic cells. May act as a signaling receptor that activates protein-tyrosine kinases and mobilizes intracellular calcium.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.