

Synonym

CD74,DHLAG,HLADG,II,Ia-GAMMA,p33,CLIP,INVG34

Source

Human CD74, Llama IgG2b Fc Tag, low endotoxin(CD4-H5258) is expressed from human 293 cells (HEK293). It contains AA Gln 73 - Met 232 (Accession # [P04233-2](#)).

Predicted N-terminus: Met

Molecular Characterization

LlamaFc(Glu 1 - Ser 243) AAX73259.1	CD74(Gln 73 - Met 232) P04233-2
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This protein carries a llama IgG2b Fc tag at the N-terminus

The protein has a calculated MW of 49.4 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 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, 100mM Glycine, 25mM Arginine,150mM NaC,pH7.5 with trehalose as protectant.

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.

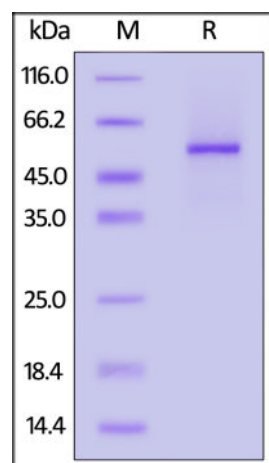
Storage

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 CD74, Llama IgG2b Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Cluster of Differentiation 74 (CD74) is also known as HLA class II histocompatibility antigen gamma chain (HLADG), DHLAG, Ia-GAMMA, invariant chain (Abbreviated Ii). CD74 / HLADG is a polypeptide involved in the formation and transport of MHC class II protein. The cell surface form of the invariant chain is known as CD74. CD74 is upregulated in several cancers and is also expressed by non-immune cells during inflammation. CD74 plays a critical role in MHC class II antigen processing by stabilizing peptide-free class II alpha / beta heterodimers in a complex soon after their synthesis and directing transport of the complex from

the endoplasmic reticulum to the endosomal / lysosomal system where the antigen processing and binding of antigenic peptides to MHC class II takes place. CD74 / DHLAG also serves as cell surface receptor for the cytokine MIF.

Clinical and Translational Updates

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