

Synonym

CD79A, CD79a, B-cell antigen receptor complex-associated protein alpha chain, B-cell antigen receptor complex-associated protein alpha chain, Ig-alpha, MB-1 membrane glycoprotein, Membrane-bound immunoglobulin-associated protein, Surface IgM-associated p

Source

Human CD79A, His Tag (CDA-H52H8) is expressed from human 293 cells (HEK293). It contains AA Leu 33 - Arg 143 (Accession # [P11912-1](#)).
Predicted N-terminus: Leu 33

Molecular Characterization

CD79A(Leu 33 - Arg 143)
P11912-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 14.4 kDa. The protein migrates as 25-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. 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.

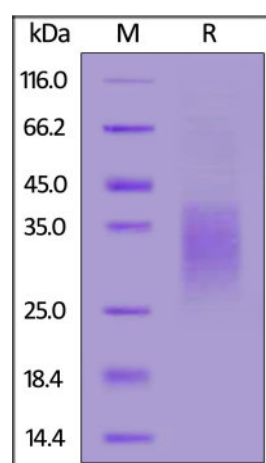
Storage

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 CD79A, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

B-Cell Antigen Receptor Complex-Associated Protein Alpha Chain(CD79a), also known as CD79 α , IgM- α , Ig- α and mb-1, which is a signaling component of the preB cell receptor (preBCR). Covalently linked CD79a and CD79b heterodimer constitutes the B cell antigen receptor (BCR) with membrane immunoglobulin (mIg) in a non-covalent association. CD79a is required in cooperation with CD79b for initiation of the signal transduction cascade activated by binding of antigen to the B-

cell antigen receptor complex (BCR), leading to internalization of the complex, trafficking to late endosomes and antigen presentation. CD79a is also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells.

Clinical and Translational Updates

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