



Synonyms

CD79A&CD79B, B-cell antigen receptor complex-associated protein alpha chain, B-cell antigen receptor complex-associated protein beta chain

Source

Cynomolgus CD79A & CD79B Protein, His Tag&Flag Tag (CDB-C52D3) is expressed from human 293 cells (HEK293). It contains AA Leu 33 - Arg 142 (CD79A) & Ala 30 - Asp 161 (CD79B) (Accession # [XP_045235481.1](#) (CD79A) & [A0A2K5WTH8-1](#) (CD79B)).

Predicted N-terminus: Leu 33 (CD79A) & Ala 30 (CD79B)

Molecular Characterization

CD79A (Leu 33 - Arg 142) XP_045235481.1	Poly-his
CD79B (Ala 30 - Asp 161) A0A2K5WTH8-1	Flag

The protein has a calculated MW of 17.6 kDa (CD79A) & 20.1 kDa (CD79B). The protein migrates as 27-30 kDa and 33-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a heterodimer.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 M Arginine, pH7.4 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

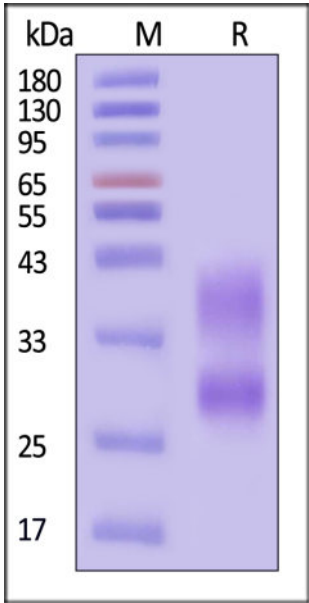
This product is stable after storage at:

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

ACRO Quality Management System

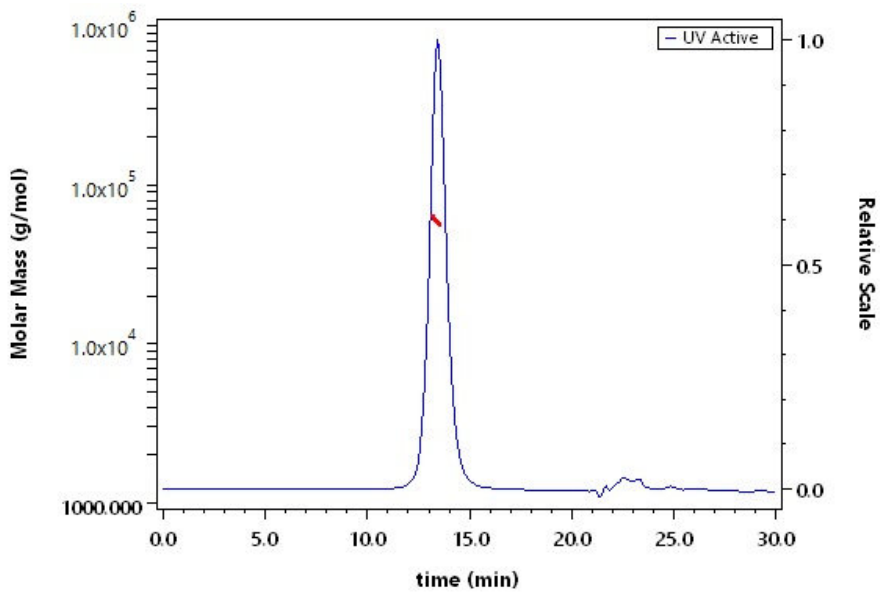
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



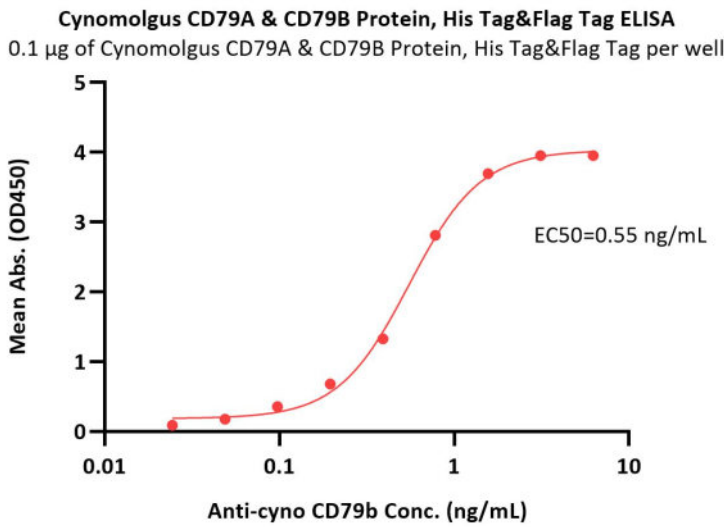
Cynomolgus CD79A & CD79B Protein, His Tag&Flag Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus CD79A & CD79B Protein, His Tag&Flag Tag (Cat. No. CDB-C52D3) is more than 95% and the molecular weight of this protein is around 40-65 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus CD79A & CD79B Protein, His Tag&Flag Tag (Cat. No. CDB-C52D3) at 1 µg/mL (100 µL/well) can bind Anti-cyno CD79b with a linear range of 0.02-2 ng/mL (QC tested).

Background

CD79a and CD79b heterodimers are the important signaling components of B cell receptor (BCR) complex which plays a crucial role in B cell development and antibody production. BCR complexes are composed of a ligand-binding receptor (membrane immunoglobulin; mIg), non-covalently associated with the signaling component, a disulfide-linked heterodimer of CD79a (Igα) and CD79b (Igβ). Both CD79 subunits consist of an Ig-like domain, a transmembrane (TM) region, and a longer cytoplasmic tail (CYT) containing an immune-receptor tyrosine-based activation motif (ITAM).



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