Cynomolgus IL-2 R beta / CD122 Protein, His Tag (MALS verified)

Catalog # ILB-C52H9

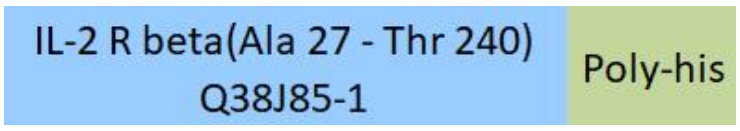
Synonym

IL2RB,RP5-1170K4.6,CD122,P70-75

Source

Cynomolgus IL-2 R beta, His Tag(ILB-C52H9) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Thr 240 (Accession # Q38J85-1). Predicted N-terminus: Ala 27

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 26.7 kDa. The protein migrates as 34-35 kDa and 36-38 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.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 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.

Storage

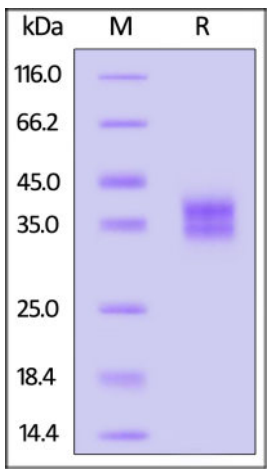
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

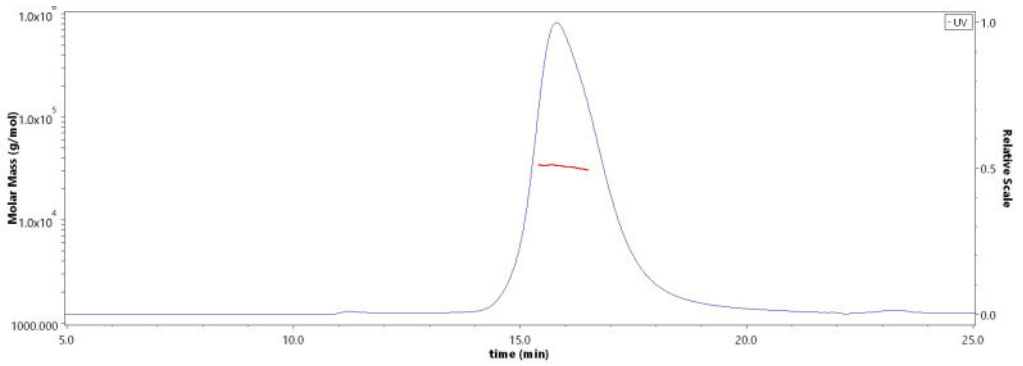
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



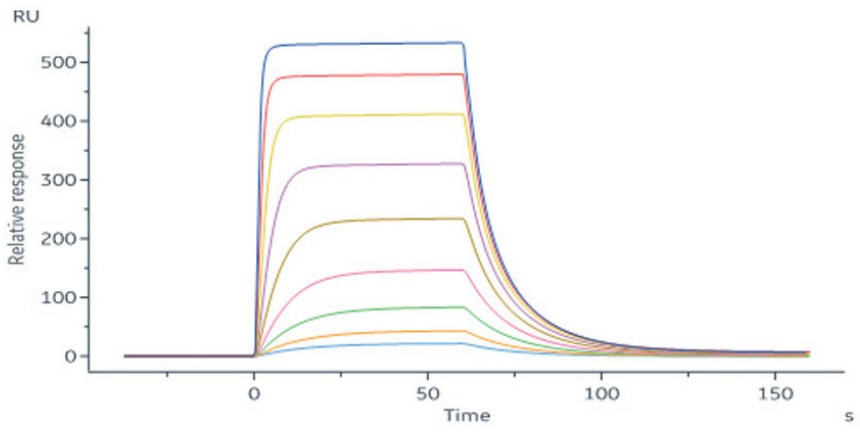
Cynomolgus IL-2 R beta, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Cynomolgus IL-2 R beta, His Tag (Cat. No. ILB-C52H9) is more than 90% and the molecular weight of this protein is around 28-38 kDa verified by SEC-MALS.
Report

Bioactivity-SPR



Cynomolgus IL-2 R beta, His Tag (Cat. No. ILB-C52H9) immobilized on CM5 Chip can bind Cynomolgus IL-2, His Tag (Cat. No. IL2-C5249) with an affinity constant of 377 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to a cytokine called IL-2. The IL-2R is made up of 3 subunits - α (CD25), β (CD122) and γ (CD132) - non-covalently associating. The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ-chain, along with the β subunit.
CD122 is also known as IL2R beta, is a member of the type I cytokine receptor family. CD122 is the receptor for interleukin-2 and is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2.

Clinical and Translational Updates

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