Mouse IL-2 R beta / CD122 Protein, Fc Tag

Catalog # ILB-M5253

Synonym

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

Source

Mouse IL-2 R beta, Fc Tag(ILB-M5253) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Glu 240 (Accession # P16297-1).
Predicted N-terminus: Ala 27

Molecular Characterization

IL-2 R beta(Ala 27 - Glu 240) P16297-1	Fc(Pro 100 - Lys 330) P01857

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

The protein has a calculated MW of 51.5 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% 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 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

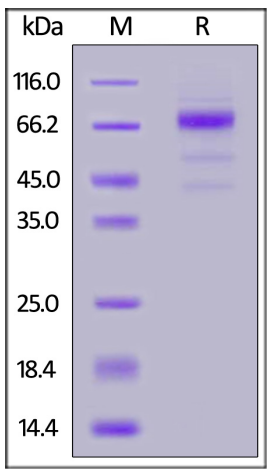
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

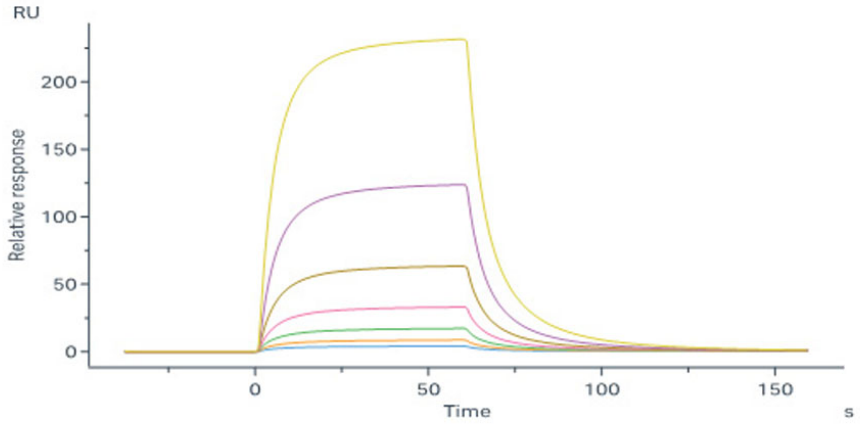
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



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

Bioactivity-SPR



Mouse IL-2, His Tag (Cat. No. IL2-M52H3) immobilized on CM5 Chip can bind Mouse IL-2 R beta, Fc Tag (Cat. No. ILB-M5253) with an affinity constant of 36.2 μM 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.

Discounts, Gifts, and more!