

**Synonym**

IL-2 R beta & IL-2 R alpha & IL-2 R gamma

**Source**

Mouse IL-2RB&IL-2RA&IL-2RG, Fc Tag&Fc Tag(ILG-M5253) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Glu 240 & Glu 22 - Lys 236 & Trp 23 - Ala 263 (Accession # [P16297-1](#) (IL-2RB) & [P01590-1](#) (IL-2RA) & [P34902-1](#) (IL-2RG)).

Predicted N-terminus: Ala 27 & Glu 22

**Molecular Characterization**

Mouse IL-2RB&IL-2RA&IL-2RG, Fc Tag&Fc Tag is produced by co-expression of IL-2RB and IL-2RA and IL-2RG, has a calculated MW of 51.5 kDa (IL-2RB) and 79.4 kDa (IL-2RA&IL-2RG). Subunit IL-2RB is fused with a human IgG1 Fc tag at the C-terminus and subunit IL-2RA&IL-2RG is fused with a human IgG1 Fc tag at the C-terminus. The reducing (R) protein migrates as 75-90 kDa and 120-150 kDa respectively due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**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**

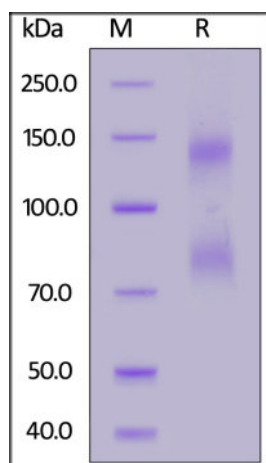
After reconstitution, this product is stable after storage at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

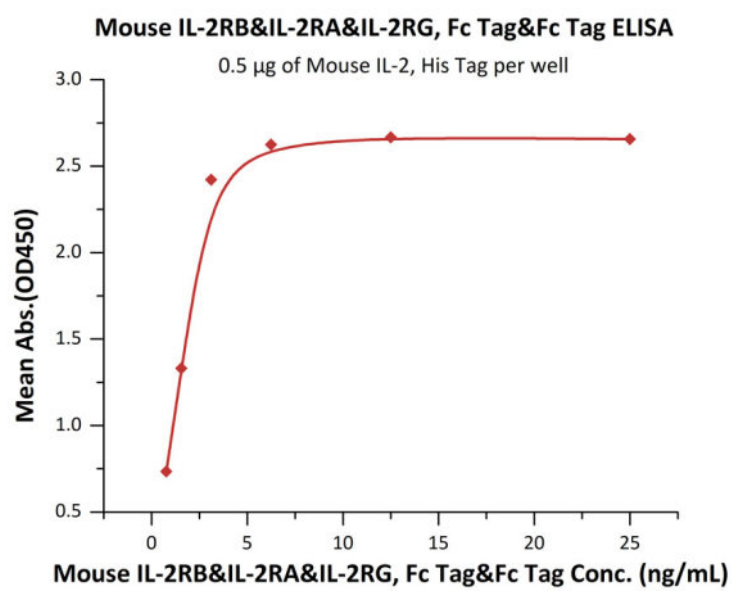
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**



Mouse IL-2RB&IL-2RA&IL-2RG, Fc Tag&Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**



Immobilized Mouse IL-2, His Tag (Cat. No. IL2-M52H3) at 5 µg/mL (100 µL/well) can bind Mouse IL-2RB&IL-2RA&IL-2RG, Fc Tag&Fc Tag (Cat. No. ILG-M5253) with a linear range of 0.8-6 ng/mL (QC tested).

### Background

Both Interleukin-2 receptor subunit beta and Interleukin-2 receptor subunit gamma are receptor for interleukin-2. Common subunit for the receptors for a variety of interleukins. Interacts with SHB upon interleukin stimulation. Probably in association with IL15RA, involved in the stimulation of neutrophil phagocytosis by IL15. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2. IL2R exists in 3 different forms: a high affinity dimer, an intermediate affinity monomer (beta subunit), and a low affinity monomer (alpha subunit). The high and intermediate affinity forms also associate with a gamma subunit.

### Clinical and Translational Updates