

Cynomolgus IL-2 R beta&IL-2 R alpha&IL-2 R gamma (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag (MALS verified)

Catalog # ILG-C52W4



BIOSYSTEMS
Acro

Synonyms

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

Source

Cynomolgus IL-2RB&IL-2RA&IL-2RG (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag (ILG-C52W4) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Thr 240 & Glu 22 - Arg 213 & Leu 23 - Pro 255 (Accession # [Q38J85-1](#) & [H6WS54](#) & [A0A2K5VGJ6](#)).

Predicted N-terminus: Ala 27 & Glu 22

Molecular Characterization

Cynomolgus IL-2RB&IL-2RA&IL-2RG (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag is produced by co-expression of IL-2RB and IL-2RA and IL-2RG, has a calculated MW of 30.1 kDa & 55.9 kDa. Subunit IL-2RB is fused with a his tag at the C-terminus and subunit IL-2RA&IL-2RG is fused with a Twin-Strep Tag at the C-terminus. The protein migrates as 38-43 kDa and 80-95 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 heterotrimer.

Endotoxin

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

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.

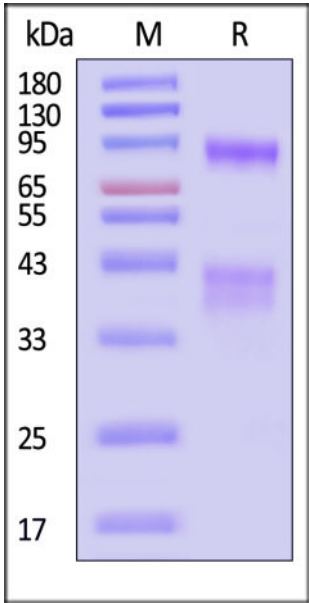
This product is stable after storage at:

- -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

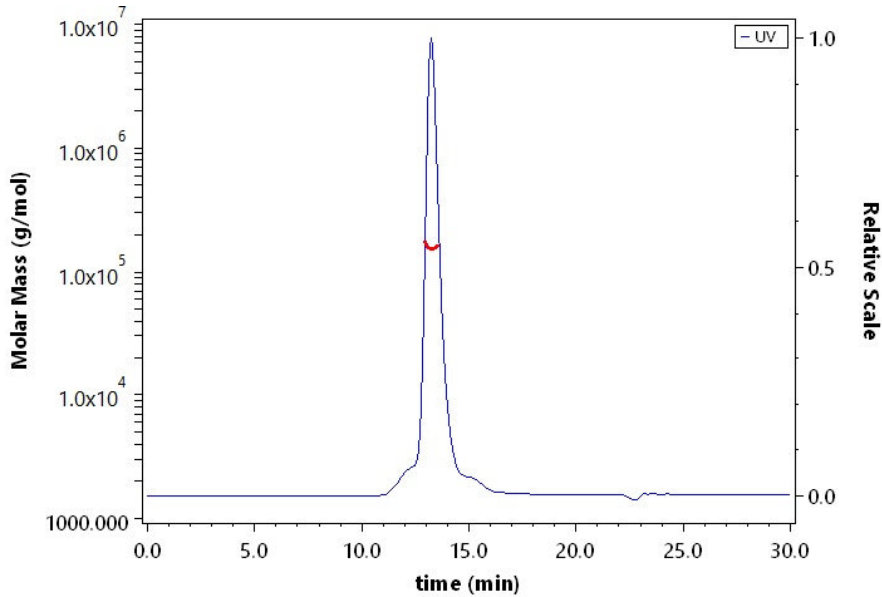
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



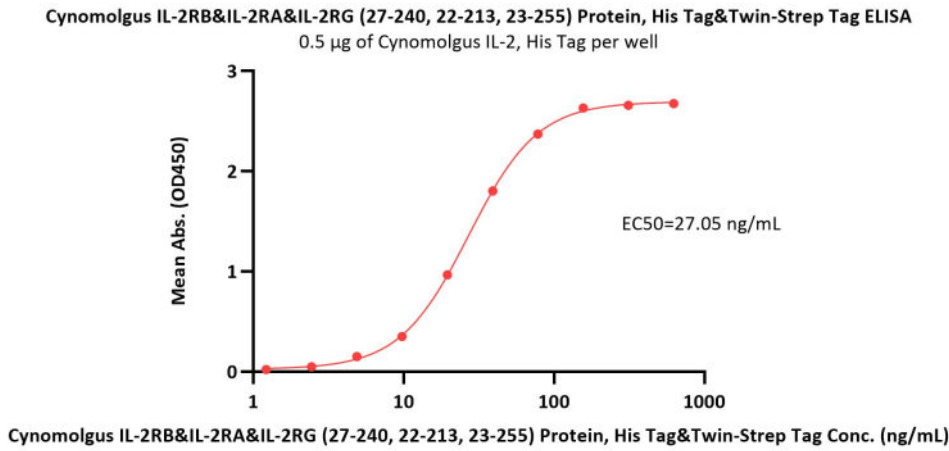
Cynomolgus IL-2RB&IL-2RA&IL-2RG (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus IL-2RB&IL-2RA&IL-2RG (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag (Cat. No. ILG-C52W4) is more than 90% and the molecular weight of this protein is around 125-165 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus IL-2, His Tag (Cat. No. IL2-C5249) at 5 µg/mL (100 µL/well) can bind Cynomolgus IL-2RB&IL-2RA&IL-2RG (27-240, 22-213, 23-255) Protein, His Tag&Twin-Strep Tag (Cat. No. ILG-C52W4) with a linear range of 0.1-78 ng/mL (QC tested).

Background

Both Interleukin-2 receptor subunit beta, Interleukin-2 receptor subunit alpha 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.



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