

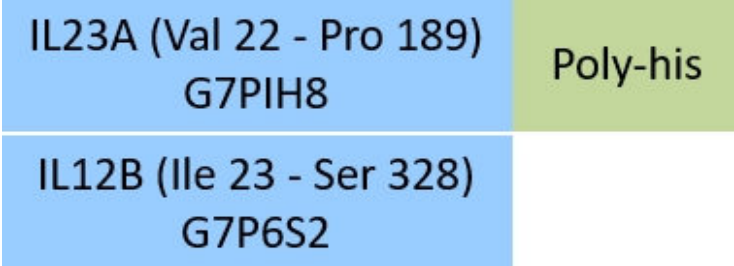
Synonym

IL-23 alpha & IL-12 beta

Source

Cynomolgus IL23A & IL12B Heterodimer Protein, His Tag&Tag Free(ILB-C52W3) is expressed from human 293 cells (HEK293). It contains AA Val 22 - Pro 189 & Ile 23 - Ser 328 (Accession # [G7PIH8](#) & [G7P6S2](#)).
Predicted N-terminus: Val 22 & Ile 23

Molecular Characterization



Cynomolgus IL23A & IL12B Heterodimer Protein, His Tag&Tag Free, produced by co-expression of IL23A and IL12B, has a calculated MW of 20.3 kDa (IL23A) and 34.8 kDa (IL12B). Subunit IL-23A is fused with a polyhistidine tag at the C-terminus and subunit IL-12B contains no tag. The protein migrates as 22-25 kDa,38-39 kDa and 41-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

>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

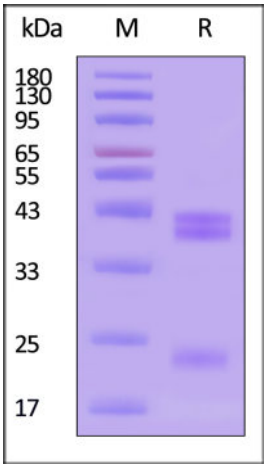
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

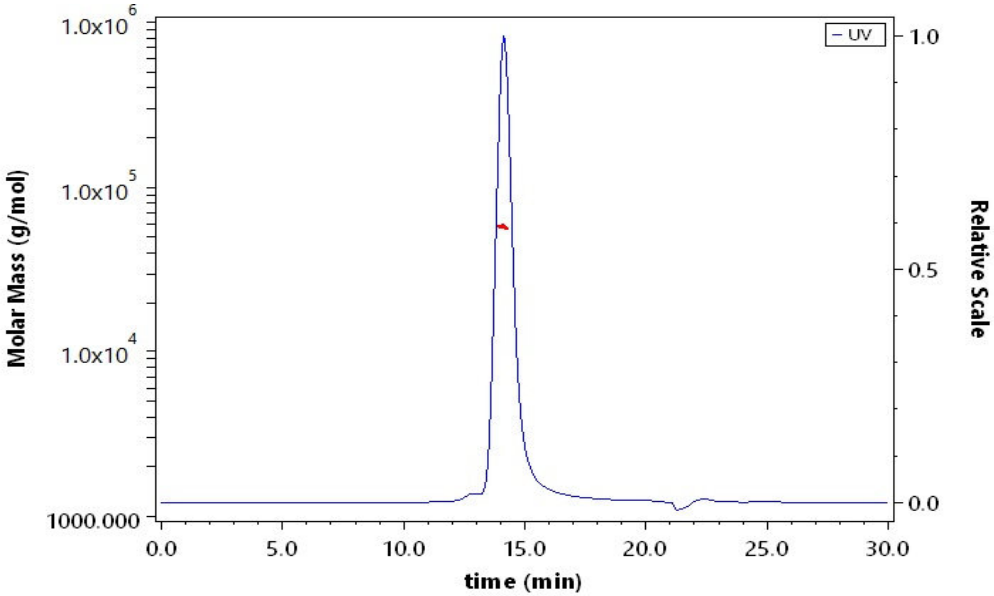
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus IL23A & IL12B Heterodimer Protein, His Tag&Tag Free 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

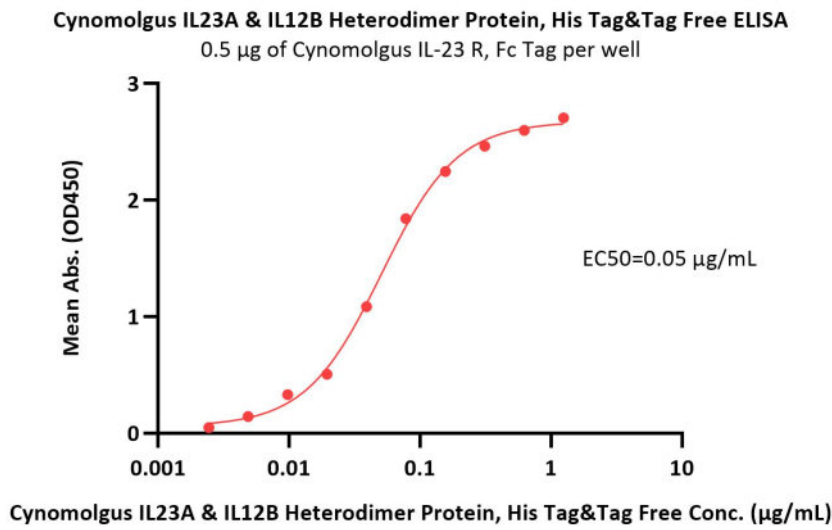


The purity of Cynomolgus IL23A & IL12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-C52W3) is more than 90% and the molecular weight of this protein is around 50-75 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA





Immobilized Cynomolgus IL-23 R, Fc Tag (Cat. No. ILR-C5251) at 5 µg/mL (100 µL/well) can bind Cynomolgus IL23A & IL12B Heterodimer Protein, His Tag&Tag Free (Cat. No. ILB-C52W3) with a linear range of 0.002-0.156 µg/mL (QC tested).

Background

Interleukin-23 subunit alpha (IL-23 alpha) can associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.

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