

Cynomolgus Integrin alpha L beta 2 (ITGAL&ITGB2) Heterodimer Protein, His Tag&Tag Free (MAL^S verified)

Catalog # IT2-C53W3



Synonyms

Integrin alpha L beta 2, ITGAL&ITGB2

Source

Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free (IT2-C53W3) is expressed from CHO cells. It contains AA Tyr 26 - Met 1089 (ITGAL) & Gln 23 - Asn 704 (ITGB2) (Accession # [G7Q0X8](#) (ITGAL) & [A0A2K5U3H3](#) (ITGB2)).

Predicted N-terminus: Tyr 26 (ITGAL) & Gln 23 (ITGB2)

Molecular Characterization

ITGAL (Tyr 26 - Met 1089) G7Q0X8	Acidic Tail	Poly-his
ITGB2 (Gln 23 - Asn 704) A0A2K5U3H3	Basic Tail	

Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGAL and ITGB2, has a calculated MW of 123.8 kDa (ITGAL) & 80.9 kDa (ITGB2). Subunit ITGAL is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB2 contains no tag but a basic tail at the C-terminus. The protein migrates as 170 kDa (ITGAL) and 95 kDa (ITGB2) when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a heterodimer.

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

Please contact us for detailed information.

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.

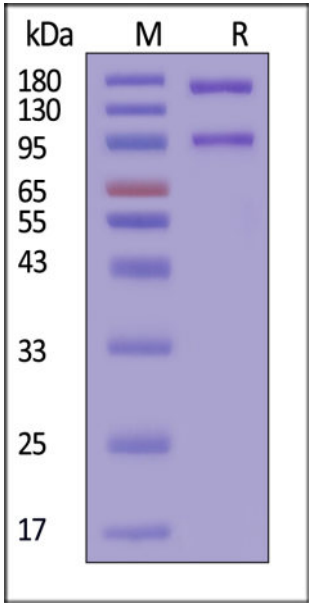
This product is stable after storage at:

- -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

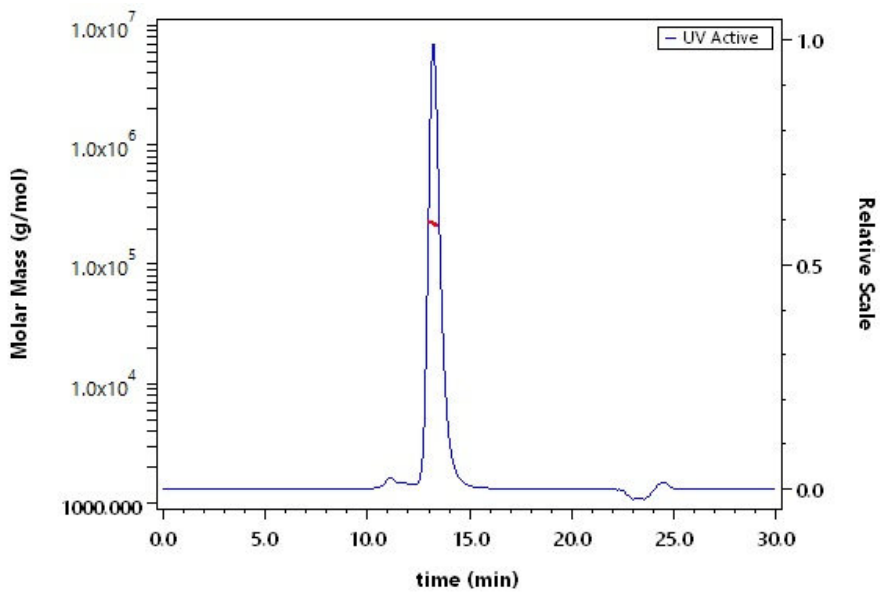
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



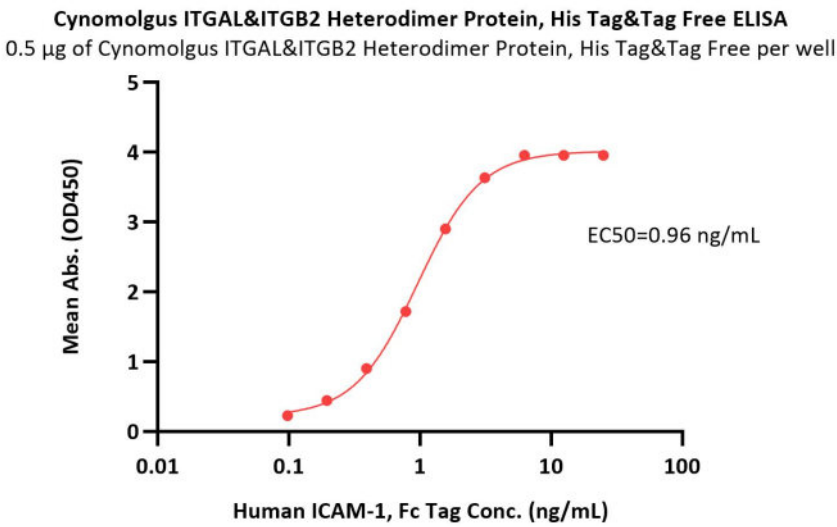
Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS

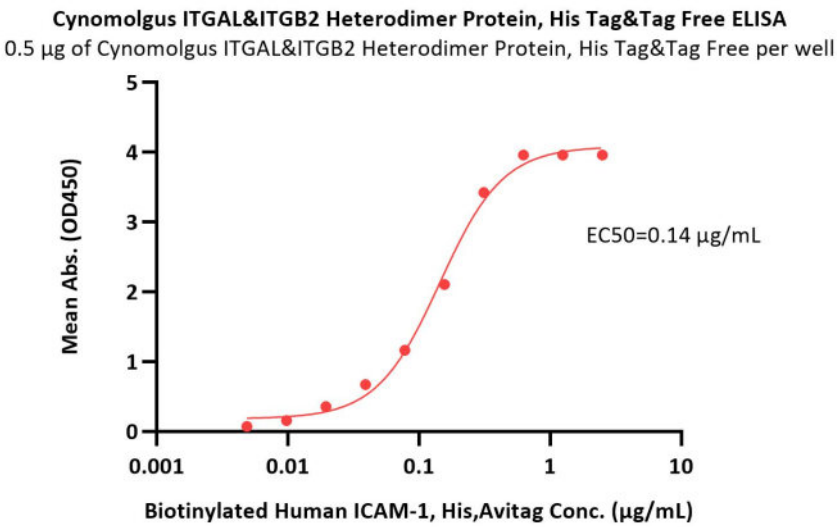


The purity of Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT2-C53W3) is more than 90% and the molecular weight of this protein is around 205-250 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT2-C53W3) at 5 µg/mL (100 µL/well) can bind Human ICAM-1, Fc Tag (Cat. No. IC1-H5250) with a linear range of 0.1-3 ng/mL (QC tested).



Immobilized Cynomolgus ITGAL&ITGB2 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT2-C53W3) at 5 µg/mL (100 µL/well) can bind Biotinylated Human ICAM-1, His,Avitag (Cat. No. IC1-H82E8) with a linear range of 0.005-0.313 µg/mL (Routinely tested).

Background

Integrin alpha-L beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin alpha L beta 2 is also a receptor for F11R (By similarity). Involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. Contributes to natural killer cell cytotoxicity. Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils. Required for generation of common lymphoid progenitor cells in bone marrow, indicating the role in lymphopoiesis. Integrin alpha L beta 2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages.



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