Cynomolgus Integrin alpha 11 beta 1 (ITGA1&ITGB1) Heterodimer Protein, His Tag&Tag Free

Catalog # IT1-C53W3



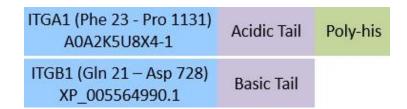
Synonym

Integrin alpha 11 beta 1,ITGA11&ITGB1

Source

Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free(IT1-C53W3) is expressed from CHO cells. It contains AA Phe 23 - Pro 1131 & Gln 21 – Asp 728 (Accession # <u>A0A2K5U8X4-1</u> & <u>XP_005564990.1</u>). Predicted N-terminus: Phe 23 & Gln 21

Molecular Characterization



Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA1 and ITGB1, has a calculated MW of 131.4 kDa & 83.6 kDa. The protein migrates as 105-115 kDa and >170 kDa when calibrated against <u>Star Ribbon Pre-stained Protein Marker</u> under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in 50 mM Tris,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

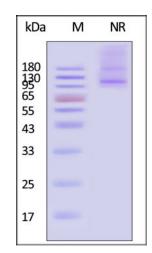
For long term storage, the product should be stored at lyophilized state at -20° C or lower.

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



Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

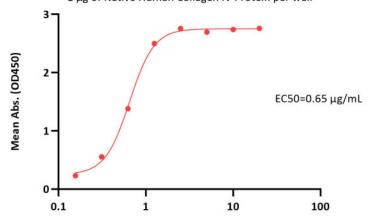
Bioactivity-ELISA

Cynomolgus Integrin alpha 11 beta 1 (ITGA1&ITGB1) Heterodimer Protein, His Tag&Tag Free





Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free ELISA $1~\mu g$ of Native Human Collagen IV Protein per well



Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free Conc. (µg/mL)

Immobilized Native Human Collagen IV Protein at 10 μ g/mL (100 μ L/well) can bind Cynomolgus ITGA1&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-C53W3) with a linear range of 0.156-1.25 μ g/mL (QC tested).

Background

Integrin alpha-1/beta-1 is a receptor for laminin and collagen. The Integrin alpha-1/beta-1 and Integrin alpha-2/beta-1 integrins provide critical support for vascular endothelial growth factor signaling, endothelial cell migration, and tumor angiogenesis. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Involved in anchorage-dependent, negative regulation of EGF-stimulated cell growth.

Clinical and Translational Updates

Please contact us via <u>TechSupport@acrobiosystems.com</u> if you have any question on this product.