



Synonym

Integrin alpha 3 beta 1,ITGA3&ITGB1

Source

Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free(IT1-R53Wb) is expressed from CHO cells. It contains AA Phe 33 - Glu 992 & Gln 21 - Asp 729 (Accession # [I4DUB5](#) & [P49134](#)).

Predicted N-terminus: Phe 33 & Gln 21

Molecular Characterization

ITGA3 (Phe 33 - Glu 992) I4DUB5	Acidic Tail	Poly-his
ITGB1 (Gln 21 - Asp 729) P49134	Basic Tail	

Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA3 and ITGB1, has a calculated MW of 113.4 kDa (ITGA3) & 83.7 kDa (ITGB1). Subunit ITGA3 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The non-reducing (NR) protein migrates as 125-150 kDa (ITGA3) and 100-110 kDa (ITGB1) respectively 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

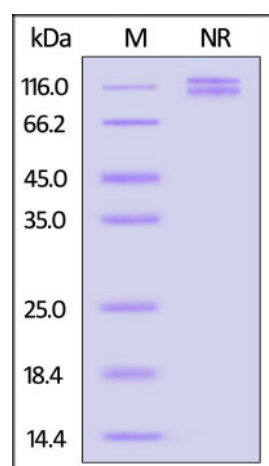
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

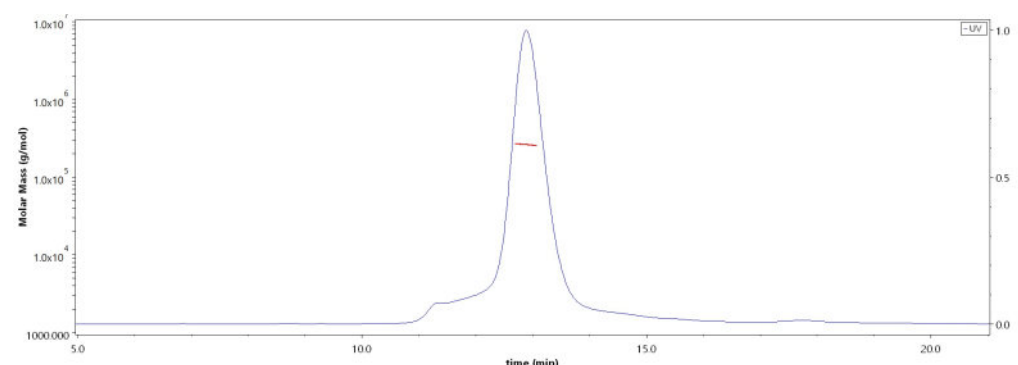
SDS-PAGE



Rat ITGA3 & 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%.

Bioactivity-ELISA

SEC-MALS



The purity of Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-R53Wb) is more than 85% and the molecular weight of this protein is around 245-285 kDa verified by SEC-MALS.

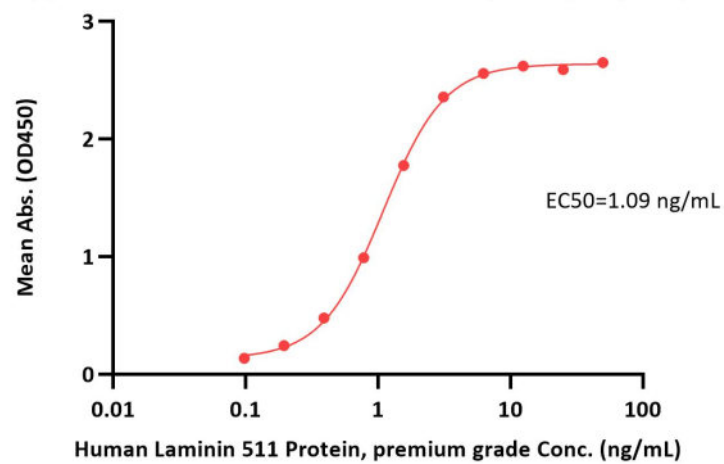
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Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free ELISA
0.5 µg of Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free per well



Immobilized Rat ITGA3 & ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-R53Wb) at 5 µg/mL (100 µL/well) can bind Human Laminin 511 Protein, premium grade (Cat. No. LA8-H5283) with a linear range of 0.1-3 ng/mL (QC tested).

Background

Integrin alpha-3/beta-1 is a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Integrin alpha-3/beta-1 provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration.

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