

Cynomolgus Integrin isoform alpha-7X1B beta 1 (ITGA7X1B&ITGB1) Heterodimer Protein, Tag Free&His Tag (MALS verified)

Catalog # IT1-C52W3



Synonym

integrin alpha-7 isoform X1B beta 1,ITGA7X1B&ITGB1,ITGA7X1BB1

Source

Cynomolgus ITGA7X1B&ITGB1 Heterodimer Protein, Tag Free&His Tag(IT1-C52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 34 - Pro 1081 (ITGA7X1B) & Gln 21 - Asp 728 (ITGB1) (Accession # [XP_005571182.1](#) (ITGA7X1B) & [XP_015311227.1](#) (ITGB1)). Predicted N-terminus: Phe 34 (ITGA7X1B) & Gln 21 (ITGB1)

Molecular Characterization

ITGA7X1B (Phe 34 - Pro 1081) XP_005571182.1	Acidic Tail	
ITGB1 (Gln 21 - Asp 728) XP_015311227.1	Basic Tail	Poly-his

Cynomolgus ITGA7X1B&ITGB1 Heterodimer Protein, Tag Free&His Tag, produced by co-expression of ITGA7X1B and ITGB1, has a calculated MW of 115.1 kDa (ITGA7X1B) and 85.0 kDa (ITGB1). Subunit ITGA7X1B contains no tag but an acidic tail at the C-terminus and subunit ITGB1 contains a polyhistidine tag and a basic tail at the C-terminus. The non-reducing (NR) protein migrates as 95-115 kDa due to glycosylation.

Endotoxin

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

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

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

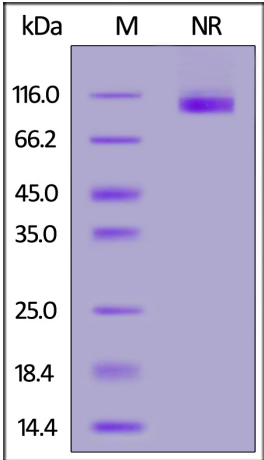
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

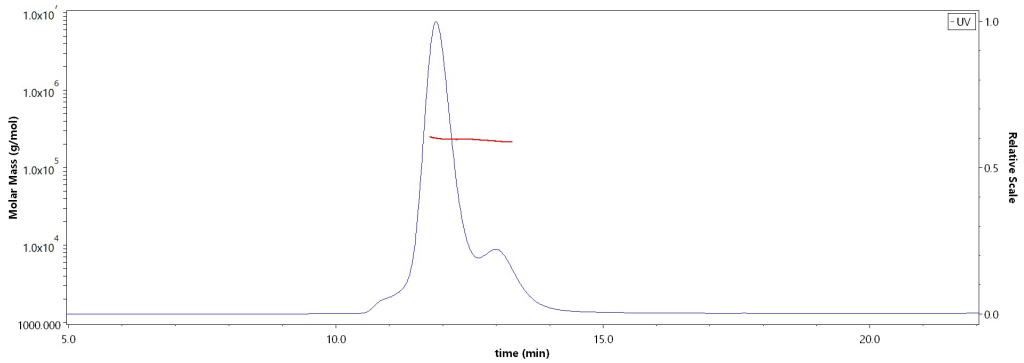
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus ITGA7X1B&ITGB1 Heterodimer Protein, Tag Free&His Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Cynomolgus ITGA7X1B&ITGB1 Heterodimer Protein, Tag Free&His Tag (Cat. No. IT1-C52W3) is more than 90% and the molecular weight of this protein is around 210-250 kDa verified by SEC-MALS.

[Report](#)

Background

Integrin alpha-7/beta-1 is the primary laminin receptor on skeletal myoblasts and adult myofibers, which is highly expressed in cardiac muscle, skeletal muscle and smooth muscle cells, and localizes to Z-disc and costamere structures. It is involved in the maintenance of the myofibers cytoarchitecture as well as for their



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anchorage, viability and functional integrity. Isoform Alpha-7X2B and isoform Alpha-7X1B promote myoblast migration on laminin 1 and laminin 2/4, but isoform Alpha-7X1B is less active on laminin 1 (In vitro). ITGA7 has been shown to interact with Merosin, ITGB1, FHL2 and FHL3.

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