



Synonyms

Integrin alpha 8 beta 1, ITGA8&ITGB1

Source

Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (IT1-H52W9) is expressed from human 293 cells (HEK293). It contains AA Phe 39 - Leu 1012 (ITGA8) & Gln 21 - Asp 728 (ITGB1) (Accession # [P53708-1](#) (ITGA8) & [P05556-1](#) (ITGB1)).

Predicted N-terminus: Phe 39 (ITGA8) & Gln 21 (ITGB1)

Molecular Characterization

ITGA8 (Phe 39 - Leu 1012) P53708-1	Acidic Tail	His
ITGB1 (Gln 21 - Asp 728) P05556-1	Basic Tail	

Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA8 and ITGB1, has a calculated MW of 114.6 kDa (ITGA8) and 83.7 kDa (ITGB1). Subunit ITGA8 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 140-170 kDa (ITGA8) and 100-115 kDa (ITGB1) when calibrated against [Star Ribbon Pre-stained Protein Marker](#) respectively due to glycosylation.

Endotoxin

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

Purity

>95% 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.

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.

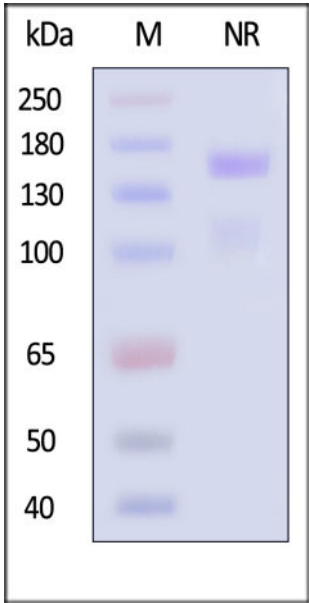
This product is stable after storage at:

- -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

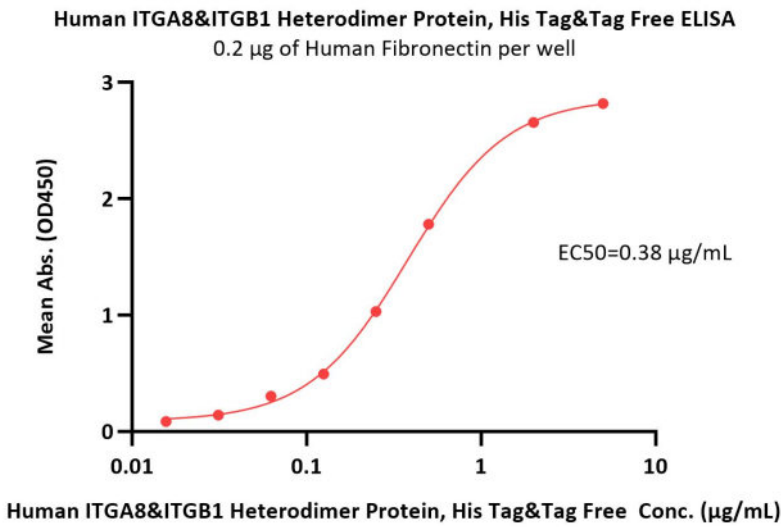
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human ITGA8&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 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA



Immobilized Human Fibronectin at 2 µg/mL (100 µL/well) can bind Human ITGA8&ITGB1 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT1-H52W9) with a linear range of 0.016-0.5 µg/mL (QC tested).

Background

Human Integrin alpha 8 beta 1 Heterodimer Protein consists of ITGA8 and ITGB1. The integrin alpha 8 subunit, isolated by low stringency hybridization, is a novel integrin subunit that associates with beta 1. The recently identified alpha 8 integrin subunit associates with beta 1 and is predominantly expressed in smooth muscle and other contractile cells in adult tissues, and in mesenchymal and neural cells during development. In addition, Integrin alpha 8 beta 1 is a receptor for fibronectin and can promote attachment, cell spreading, and neurite outgrowth on fibronectin.

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