

**Synonym**

Integrin alpha X beta 2, ITGAX&ITGB2, CD11C&CD18

**Source**

Human ITGAX&ITGB2 Heterodimer Protein, His Tag&Tag Free(IT2-H52W3) is expressed from human 293 cells (HEK293). It contains AA Phe 20 -Pro 1107 (ITGAX) & Gln 23 - Asn 700 (ITGB2) (Accession # [P20702-1](#) (ITGAX) & [P05107-1](#) (ITGB2)).

Predicted N-terminus: Phe 20 (ITGAX) & Gln 23 (ITGB2)

**Molecular Characterization**

ITGAX (Phe 20 - Pro 1107) P20702-1	Acidic Tail	Poly-his
ITGB2 (Gln 23 - Asn 700) P05107-1	Basic Tail	

Human ITGAX&ITGB2 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGAX and ITGB2, has a calculated MW of 126.5 kDa (ITGAX) and 80.2 kDa (ITGB2). Subunit ITGAX 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 145 kDa (ITGAX) and 90 kDa (ITGB2) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL 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.*

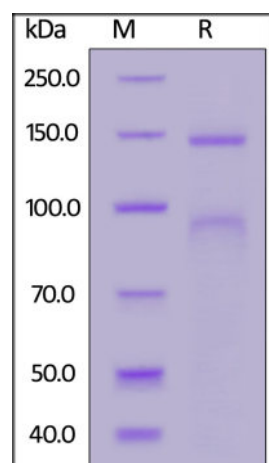
**Storage**

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**

Human ITGAX&ITGB2 Heterodimer Protein, His Tag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

**Background**

The integrin  $\alpha X\beta 2$  takes a key role in host defense and functions as a receptor for the complement C3 cleavage product iC3b, fibrinogen, denatured proteins, and intercellular adhesion molecule (ICAM)-1. Integrin  $\alpha X\beta 2$  has a unique cellular distribution with expression on monocytes, macrophages, and the CD8<sup>-</sup> subsets of dendritic cells and involves in priming and regulation of the immune response.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.