

Human Integrin alpha M beta 2 (ITGAM&ITGB2) Heterodimer Protein

Cat. No. ITG-HM1MB

Description

Source	Recombinant Human Integrin alpha M beta 2 (ITGAM&ITGB2) Heterodimer Protein is expressed from Expi293 with His tag at the C-terminal. It contains Phe17-Asn1104(ITGAM) acidic tail&Gln23-Asn700(ITGB2) basic tail.
Accession	P11215-1(ITGAM)&P05107-1(ITGB2)
Molecular Weight	The protein has a predicted MW of 126.10 kDa(ITGAM)&79.50 kDa(ITGB2). Due to glycosylation, the protein migrates to 140-160 kDa (ITGAM)&90-100 kDa (ITGB2) based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

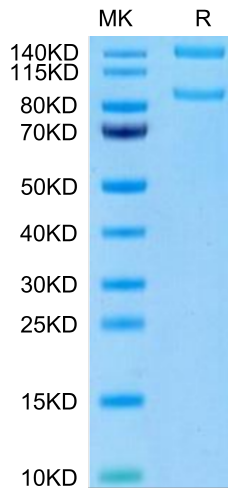
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated freeze-thaw cycles.

Background

Integrin $\alpha M\beta 2$, also called Mac-1 or complement receptor-3 (CR3), is a heterodimer expressed on monocytes. It functions as both an adhesion molecule mediating the diapedesis of leukocytes across the endothelium and a receptor for the iC3b fragment of complement responsible for phagocytic/degranulation responses to microorganisms[1]. Active $\alpha M\beta 2$ binds iC3b, coagulation proteins fibrinogen, plasminogen and factor X, extracellular matrix (ECM) proteins fibronectin, laminin and collagen, and cell surface ICAMs, myelin basic protein and DCSIGN[2].

Assay Data

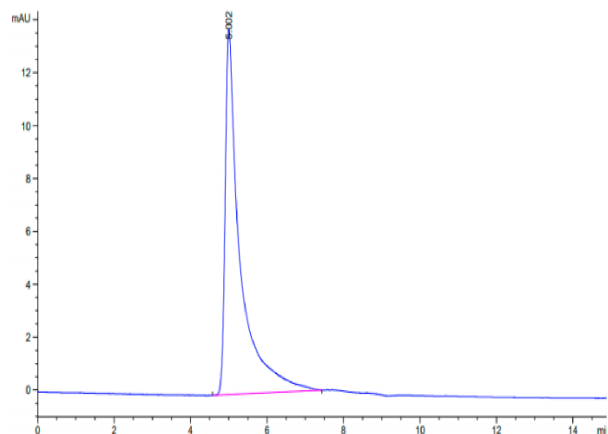
Tris-Bis PAGE



Human ITGAM&ITGB2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human ITGAM&ITGB2 is greater than 95% as determined by SEC-HPLC.