

Active Recombinant Human ITGA4 & ITGB1 Protein, His-Avi-tagged, Biotinylated

Cat. No. ITGA4 & ITGB1-162H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human ITGA4 & ITGB1 Heterodimer Protein is expressed from HEK293 cells. It contains AA Tyr 34 - Thr 977 (ITGA4) & Gln 21 - Asp 728 (ITGB1) (Accession # P13612-1 (ITGA4) & P05556-1 (ITGB1)). Subunit ITGA4 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and an Avi tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	34-977;21-728 a.a.
Predicted N Terminal	Tyr 34 (ITGA4) & Gln 21 (ITGB1)
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	Immobilized Natalizumab at 1 ug/mL (100 uL/well) can bind Biotinylated Human ITGA4 & ITGB1 Heterodimer Protein with a linear range of 2-31 ug/mL.
Molecular Mass	Biotinylated Human ITGA4 & ITGB1 Heterodimer Protein, produced by co-expression of ITGA4 and ITGB1, has a calculated MW of 113.2 kDa (ITGA4) & 83.7 kDa (ITGB1). The reducing protein migrates as 100-150 kDa (ITGA4) and 65-85 kDa (ITGB1) respectively due to glycosylation.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Characteristic	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Official Symbol	ITGA4; ITGB1
Synonyms	Integrin alpha 4 beta 1, ITGA4 & ITGB1

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