Active Recombinant Human ITGA4 & ITGB1 Heterodimer Protein, His-tagged

Cat. No. ITGA4&ITGB1-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA4 & ITGB1 Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Tyr 34 - Thr 977 (ITGA4) & Gln 21 - Asp 728 (ITGB1) (Accession # P13612-1 (ITGA4) & P05556-1 (ITGB1)). Predicted N-terminus: Tyr 34 (ITGA4) & Gln 21 (ITGB1). Human ITGA4 & ITGB1 Heterodimer Protein, produced by co-expression of ITGA4 and ITGB1, has a calculated MW of 111.4 kDa (ITGA4) & 83.7 kDa (ITGB1). Subunit ITGA4 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 predicted N-terminus is Tyr 34 (ITGA4) & Gln 21 (ITGB1). The reducing (R) protein migrates as 60-70 kDa and 80-85 kDa (ITGA4) and 100-133 kDa and 135-150 kDa (ITGB1) respectively due to glycosylation.
Species	Human
Source	HEK293
ProteinLength	Tyr 34 - Thr 977 (ITGA4) & Gln 21 - Asp 728 (ITGB1)
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Natalizumab at 1 μg/mL (100 μL/well) can bind Recombinant Human ITGA4 & ITGB1 Heterodimer Protein, His-tagged with a linear range of 1-16 ng/mL (QC tested).

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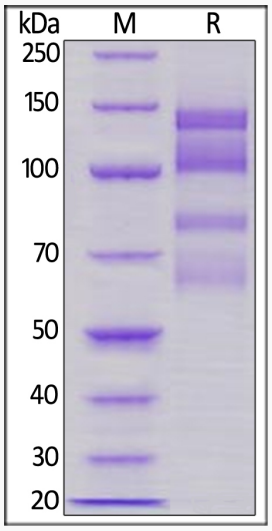
Molecular Mass	111.4 kDa (ITGA4) & 83.7 kDa (ITGB1)
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Notes	Please avoid repeated freeze-thaw cycles.
Stability	No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ITGA4 integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Homo sapiens] & ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Homo sapiens]
Official Symbol	ITGA4 & ITGB1
Synonyms	ITGA4; CD49D; integrin alpha-4; CD49d; 269C wild type; IA4; MGC90518; & ITGB1; FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; FNRB; MDF2; VLAB; MSK12; VLA-BETA;

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Gene ID	3676 & 3688
mRNA Refseq	NM_000885 & NM_002211
Protein Refseq	NP_000876 & NP_002202
MIM	192975 & 135630
UniProt ID	P13612 & P05556



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