

Active Recombinant Human ITGA5 & ITGB1 Heterodimer Protein, His-tagged

Cat. No. ITGA5&ITGB1-358H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human ITGA5 & ITGB1 Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Phe 42 - Tyr 995 (ITGA5) & Gln 21 - Asp 728 (ITGB1) (Accession # P08648-1 (ITGA5) & P05556-1 (ITGB1)). Predicted N-terminus: Phe 42 (ITGA5) & Gln 21 (ITGB1). Human ITGA5 & ITGB1 Heterodimer Protein, produced by co-expression of ITGA5 and ITGB1, has a calculated MW of 104.1 kDa (ITGA5) and 83.7 kDa (ITGB1). Subunit ITGA5 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 reducing (R) protein migrates as 117-150 kDa (ITGA5) and 100-116 kDa (ITGB1) respectively due to glycosylation.

Species

Human

Source

HEK293

ProteinLength

Phe 42 - Tyr 995 (ITGA5) & Gln 21 - Asp 728 (ITGB1)

Form

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.

Bio-activity

Immobilized Human Fibronectin at 2 µg/mL (100 µL/well) can bind Recombinant Human ITGA5 & ITGB1 Heterodimer Protein, His-tagged with a linear range of 0.2-2 ng/mL (QC tested).

Molecular Mass

104.1 kDa (ITGA5) & 83.7 kDa (ITGB1)

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Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>95% 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	ITGA5 integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [Homo sapiens] & ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Homo sapiens]
Official Symbol	ITGA5 & ITGB1
Synonyms	ITGA5; FNRA; integrin alpha-5; CD49e; VLA-5; integrin alpha-F; VLA5A; & ITGB1; FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; FNRB; MDF2; VLAB; MSK12; VLA-BETA;
Gene ID	3678 & 3688

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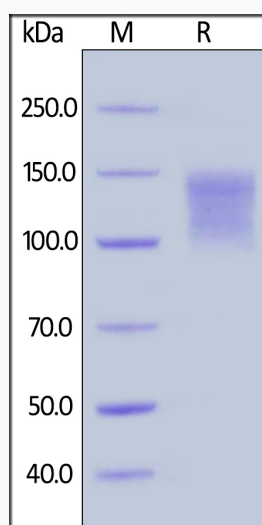
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mRNA Refseq [NM_002205 & NM_002211](#)

Protein Refseq [NP_002196 & NP_002202](#)

MIM [135620 & 135630](#)

UniProt ID [P08648 & P05556](#)



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