

Active Recombinant Human ITGAV & ITGB5 Heterodimer Protein, His-tagged

Cat. No. ITGAV&ITGB5-364H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human ITGAV & ITGB5 Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Val 992 (ITGAV) & Gly 24 - Asn 719 (ITGB5) (Accession # NP_002201 (ITGAV) & AAH06541 (ITGB5)). Predicted N-terminus: Phe 31 (ITGAV) & Gly 24 (ITGB5). Human ITGAV & ITGB5 Heterodimer Protein, produced by co-expression of ITGAV and ITGB5, has a calculated MW of 113 kDa (ITGAV) and 81.9 kDa (ITGB5). Subunit ITGAV is fused with polyhistidine tag at the C-terminus and followed by a acidic tail and subunit ITGB5 contains no tag but a basic tail at the C-terminus. The reducing (R) protein migrates as 145 kDa (ITGAV) and 100-116 kDa (ITGB5) respectively due to glycosylation.

Species Human

Source HEK293

ProteinLength Phe 31 - Val 992 (ITGAV) & Gly 24 - Asn 719 (ITGB5)

Form Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 . Normally trehalose is added as protectant before lyophilization.

Bio-activity Immobilized Vitronectin at 2 µg/mL (100 µL/well) can bind Recombinant Human ITGAV & ITGB5 Heterodimer Protein, His-tagged with a linear range of 2-20 ng/mL (QC tested).

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Molecular Mass	113 kDa (ITGAV) & 81.9 kDa (ITGB5)
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	ITGAV integrin, alpha V [Homo sapiens] & ITGB5 integrin, beta 5 [Homo sapiens]
Official Symbol	ITGAV & ITGB5
Synonyms	ITGAV; integrin, alpha V; CD51; MSK8; VNRA; VTNR; DKFZp686A08142; & ITGB5; integrin, beta 5; integrin beta-5; FLJ26658;
Gene ID	3685 & 3693
mRNA Refseq	NM_001144999 & NM_002213

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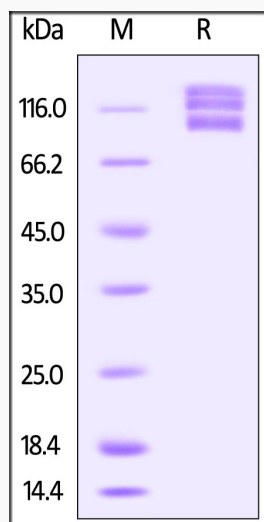
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Protein Refseq NP_001138471 & NP_002204

MIM 193210 & 147561

UniProt ID P06756 & P18084



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