

Active Recombinant Human ITGAV & ITGB8 Heterodimer Protein, His-tagged

Cat. No. ITGAV&ITGB8-366H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAV & ITGB8 Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Phe 31 - Val 992 (ITGAV) & Glu 43 - Arg 684 (ITGB8) (Accession # NP_002201 (ITGAV) & NP_002205 (ITGB8)). Predicted N-terminus: Phe 31 (ITGAV) & Glu 43 (ITGB8). Human ITGAV & ITGB8 Heterodimer Protein, produced by co-expression of ITGAV and ITGB8, has a calculated MW of 113.0 kDa (ITGAV) and 76.5 kDa (ITGB8). Subunit ITGAV is fused with polyhistidine tag at the C-terminus and followed by a acidic tail and subunit ITGB8 contains no tag but a basic tail at the C-terminus. The reducing (R) protein migrates as 120-130 kDa and 140-150 kDa (ITGAV) and 90-95 kDa (ITGB8) respectively due to glycosylation.
Species	Human
Source	HEK293
ProteinLength	Phe 31 - Val 992 (ITGAV) & Glu 43 - Arg 684 (ITGB8)
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM NaCl, 2 mM MgCl ₂ , pH8.0. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Recombinant Human ITGAV & ITGB8 Heterodimer Protein, His-tagged at 5 µg/mL (100 µL/well) can bind Biotinylated Human TGF-Beta 1, His Tag, Avi Tag with a linear range of 0.8-13 ng/mL (QC tested).

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Immobilized Human Fibronectin at 10 µg/mL (100 µL/well) can bind Recombinant Human ITGAV & ITGB8 Heterodimer Protein, His-tagged with a linear range of 0.313-10 µg/mL (Routinely tested).

Immobilized Human Vitronectin at 5 µg/mL (100 µL/well) can bind Recombinant Human ITGAV & ITGB8 Heterodimer Protein, His-tagged with a linear range of 0.313-10 µg/mL (Routinely tested).

Molecular Mass	113.0 kDa (ITGAV) & 76.5 kDa (ITGB8)
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] & ITGB8 integrin, beta 8 [Homo sapiens]
Official Symbol	ITGAV & ITGB8

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Synonyms	ITGAV; integrin, alpha V; CD51; MSK8; VNRA; VTNR; DKFZp686A08142; & ITGB8; integrin, beta 8; integrin beta-8;
Gene ID	3685 & 3696
mRNA Refseq	NM_001144999 & NM_002214
Protein Refseq	NP_001138471 & NP_002205
MIM	193210 & 604160
UniProt ID	P06756 & P26012

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