Active Recombinant Human ITGAV & ITGB1 protein, His-Avi-tagged, Biotinylated

Cat. No. ITGAV & ITGB1-746H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human ITGAV & ITGB1 protein(Phe 31 - Val 992 (ITGAV) & Gly 27 - Asp 718 (ITGB3)), fused with His and Avi tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	31-992;27-718 a.a.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human Vitronectin, Tag Free at 5 μg/mL (100 μL/well) can bind Biotinylated Human ITGAV&ITGB3 Heterodimer Protein, His,Avitag&Tag Free with a linear range of 0.039-2.5 μg/mL.
Molecular Mass	Biotinylated Human ITGAV&ITGB3 Heterodimer Protein, His, Avitag™&Tag Free, produced by co-expression of ITGAV and ITGB3, has a calculated MW of 113 kDa (ITGAV) and 82 kDa (ITGB3). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and an Avi tag (Avitag™) and subunit ITGB3 contains no tag but a basic tail at the C-terminus. The predicted N-terminus is Phe 31 (ITGAV) & Gly 27 (ITGB3). The non-reducing (NR) protein migrates as 135 kDa (ITGAV) & 80 kDa (ITGB3) respectively due to glycosylation.

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Proteinlength	Phe31-Val992(ITGAV)&Gly27-Asp718(ITGB3)
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower.Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°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

Gene Name	ITGAV integrin, alpha V [Homo sapiens]
Official Symbol	ITGAV
Synonyms	ITGAV; integrin, alpha V; antigen identified by monoclonal L230 , integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51) , MSK8, vitronectin receptor , VNRA, VTNR; integrin alpha-V; CD51; integrin alphaVbeta3; vitronectin receptor subunit alpha; antigen identified by monoclonal L230; integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51); MSK8; VNRA; VTNR; DKFZp686A08142;
Gene ID	3685

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mRNA Refseq	NM_001144999
Protein Refseq	NP_001138471
MIM	193210
UniProt ID	P06756

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