

Active Recombinant Human ITGAV & ITGB5 Protein, His-Avi-tagged, Biotinylated

Cat. No. ITGAV & ITGB5-758H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human ITGAV & ITGB5 Heterodimer Protein is expressed from HEK293 cells. It contains AA Phe 31 - Val 992 (ITGAV) & Gly 24 - Asn 719 (ITGB5) (Accession # NP_002201.1 (ITGAV) & P18084-1 (ITGB5)). Subunit ITGAV is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and an Avi tag and subunit ITGB5 contains no tag but a basic tail at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	31-992;24-719 a.a.
Predicted N Terminal	Phe 31 (ITGAV) & Gly 24 (ITGB5)
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 150 mM NaCl, pH 7.5, 10% trehalose.
Bio-activity	Immobilized Human Vitronectin at 5 ug/mL (100 uL/well) can bind Biotinylated Human ITGAV & ITGB5 Heterodimer Protein with a linear range of 0.01-0.156 ug/mL. Immobilized Human Fibronectin at 5 ug/mL (100 uL/well) can bind Biotinylated Human ITGAV & ITGB5 Heterodimer Protein with a linear range of 0.156-5 ug/mL.
Molecular Mass	Biotinylated Human ITGAV & ITGB5 Heterodimer Protein, produced by co-expression of ITGAV and ITGB5, has a calculated MW of 114.7 kDa (ITGAV) and 81.9 kDa

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	(ITGB5). The reducing protein migrates as 120 kDa and 150kDa (ITGAV) and 90 kDa (ITGB5) respectively due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Characteristic	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°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

Official Symbol	ITGAV; ITGB5
Synonyms	Integrin alpha V beta 5, ITGAV & ITGB5

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