

Active Recombinant Human ITGA5 & ITGB1 Protein, His-Avi-tagged, Biotinylated

Cat. No. ITGA5 & ITGB1-1877H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Human ITGA5 & ITGB1 Heterodimer Protein is expressed from HEK293 cells. It contains AA Phe 42 - Tyr 995 (ITGA5) & Gln 21 - Asp 728 (ITGB1) (Accession # P08648-1 (ITGA5) & P05556-1 (ITGB1)). Subunit ITGA5 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and an Avi tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	42-995;21-728 a.a.
Predicted N Terminal	Phe 42 (ITGA5) & Gln 21 (ITGB1)
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5, 10% trehalose.
Bio-activity	Immobilized Human Fibronectin at 5 ug/mL (100 uL/well) can bind Biotinylated Human ITGA5 & ITGB1 Heterodimer Protein with a linear range of 2-78 ug/mL.
Molecular Mass	Biotinylated Human ITGA5 & ITGB1 Heterodimer Protein, produced by co-expression of ITGA5 and ITGB1, has a calculated MW of 112.5 kDa (ITGA5) & 83.7 kDa (ITGB1). The reducing protein migrates as 120-130KDa (ITGA5) and 100-115 kDa (ITGB1) respectively due to glycosylation.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90% 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	ITGA5 ; ITGB1
Synonyms	Integrin alpha 5 beta 1, ITGA5 & ITGB1

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