

Active Recombinant Human ITGAIib & ITGB3 Heterodimer Protein, His-tagged

Cat. No. ITGAIib&ITGB3-363H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGAIib & ITGB3 Heterodimer Protein, His-tagged is expressed from human 293 cells (HEK293). It contains AA Leu 32 - Arg 993 (ITGAIib) & Gly 27 - Asp 718 (ITGB3) (Accession # P08514-1 (R887L) (ITGAIib) & P05106-1 (ITGB3)). Predicted N-terminus: Leu 32 (ITGAIib) & Gly 27 (ITGB3). Human ITGAIib & ITGB3 Heterodimer Protein, produced by co-expression of ITGAIib and ITGB3, has a calculated MW of 111.4 kDa (ITGAIib) & 81.8 kDa (ITGB3). Subunit ITGAIib is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB3 contains no tag but a basic tail at the C-terminus. The reducing (R) protein migrates as 125 kDa and 145 kDa (ITGAIib) and 110-120 kDa (ITGB3) respectively due to glycosylation.
Species	Human
Source	HEK293
ProteinLength	Leu 32 - Arg 993 (ITGAIib) & Gly 27 - Asp 718 (ITGB3)
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human Fibronectin at 2 µg/mL (100 µL/well) can bind Recombinant Human ITGAIib & ITGB3 Heterodimer Protein, His-tagged with a linear range of 2-78 ng/mL (QC tested).

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	Recombinant Human ITGAIIB & ITGB3 Heterodimer Protein, His-tagged at 1 µg/mL (100 µL/well) can bind Abciximab with a linear range of 0.8-6 ng/mL (Routinely tested).
Molecular Mass	111.4 kDa (ITGAIIB) & 81.8 kDa (ITGB3)
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>90% 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	ITGB3 integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) [Homo sapiens]
Official Symbol	ITGB3
Synonyms	ITGB3; GP3A; integrin beta-3; CD61; GPIIIa; platelet glycoprotein IIIa; GT; BDPLT2;

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Gene ID	3690
mRNA Refseq	NM_000212
Protein Refseq	NP_000203
UniProt ID	P05106

