

Active Recombinant Human ITGA8 & ITGB1 Heterodimer Protein, His & Avi-tagged, Biotinylated

Cat. No. ITGA8&ITGB1-362H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human ITGA8 & ITGB1 Heterodimer Protein, His & Avi-tagged, Biotinylated is expressed from human 293 cells (HEK293). It contains AA Phe 39 - Leu 1012 (ITGA8) & Gln 21 - Asp 728 (ITGB1) (Accession # P53708-1 (ITGA8) & P05556-1 (ITGB1)). Predicted N-terminus: Phe 39 (ITGA8) & Gln 21 (ITGB1). Biotinylated Human ITGA8 & ITGB1 Heterodimer Protein, produced by co-expression of ITGA8 and ITGB1, has a calculated MW of 116.4 kDa (ITGA8) & 83.7 kDa (ITGB1). Subunit ITGA8 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. The reducing (R) protein migrates as 110 kDa and 120 kDa due to glycosylation.

Species Human

Source HEK293

ProteinLength Phe 39 - Leu 1012 (ITGA8) & Gln 21 - Asp 728 (ITGB1)

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 Fibronectin at 5 µg/mL (100 µL/well) can bind Recombinant Human ITGA8 & ITGB1 Heterodimer Protein, His & Avi-tagged, Biotinylated with a linear range of 0.156-5 µg/mL (QC tested).

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Molecular Mass	116.4 kDa (ITGA8) & 83.7 kDa (ITGB1)
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.
Conjugation	Biotin

GENE INFORMATION

Gene Name	ITGA8 integrin, alpha 8 [Homo sapiens] & ITGB1 integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Homo sapiens]
Official Symbol	ITGA8 & ITGB1
Synonyms	ITGA8; integrin, alpha 8; integrin alpha-8; & ITGB1; FNRB, MDF2, MSK12; integrin beta-1; CD29; GPIIA; FNRB; MDF2; VLAB; MSK12; VLA-BETA;

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Gene ID	8516 & 3688
mRNA Refseq	NM_003638 & NM_002211
Protein Refseq	NP_003629 & NP_002202
MIM	604063 & 135630
UniProt ID	P53708 & P05556

