Active Recombinant Human ITGA5&ITGB1 protein, His-tagged

Cat. No. ITGA5&ITGB1-1563H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA5&ITGB1 protein(Phe42-Tyr995(ITGA5)&Gln21-Asp728(ITGB1)), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	42-995;21-728 a.a.
Form	Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 150 mM NaCl, pH7.5.
Bio-activity	Immobilized Human Fibronectin at 2 μg/mL (100 μL/well) can bind Human ITGA5&ITGB1 Heterodimer Protein, His Tag&Tag Free with a linear range of 0.2-2 ng/mL.
Molecular Mass	Human ITGA5&ITGB1 Heterodimer Protein, His Tag&Tag Free, produced by co-expression of ITGA5 and ITGB1, has a calculated MW of 110.7 kDa (ITGA5) and 83.7 kDa (ITGB1). Subunit ITGA5 is fused with an acidic tail at the C-terminus and followed by a polyhistidine tag and subunit ITGB1 contains no tag but a basic tail at the C-terminus. The non-reducing (NR) protein migrates as 130-150 kDa (ITGA5) and 100-120 kDa (ITGB1) respectively due to glycosylation.
Proteinlength	Phe42-Tyr995(ITGA5)&Gln21-Asp728(ITGB1)
Endotoxin	Less than 1.0 EU per μg by the LAL method.

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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.

GENE INFORMATION

Gene Name	ITGA5 integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [Homo sapiens]
Official Symbol	ITGA5
Synonyms	ITGA5; integrin, alpha 5 (fibronectin receptor, alpha polypeptide); FNRA; integrin alpha-5; CD49e; VLA-5; integrin alpha-F; CD49 antigen-like family member E; fibronectin receptor subunit alpha; fibronectin receptor, alpha subunit; very late activation protein 5, alpha subunit; VLA5A;
Gene ID	3678
mRNA Refseq	NM_002205
Protein Refseq	NP_002196
MIM	135620
UniProt ID	P08648

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