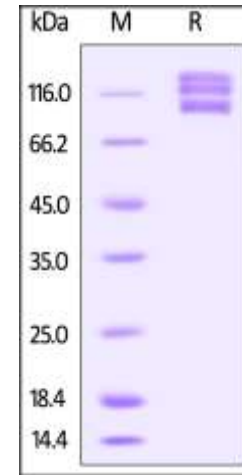


Human CellExp™ Integrin alpha V beta 5 Heterodimer, Human recombinant

CATALOG NO:	P1121-10 10 µg P1121-50 50 µg
ALTERNATE NAMES:	Integrin alpha V beta 5, ITGAVB5, ITGAV & ITGB5
SOURCE:	HEK 293 cells ITGAV (Phe 31 – Val 992), ITGB5 (Gly 24 - Asn 719)
PURITY:	> 95% by SDS – PAGE
MOL. WEIGHT:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 113 kDa (ITGAV) & 81.9 kDa (ITGB5). Predicted N-terminus is Phe 31 (ITGAV) & Gly 24 (ITGB5). The protein migrates as 145 kDa (ITGAV) & 100-116 kDa (ITGB5) on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
ENDOTOXIN LEVEL:	< 1.0 EU per 1µg of protein (determined by LAL method)
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -80°C.
DESCRIPTION:	Integrin alpha V beta 5 (ITGAV & ITGB5 or ITGAVB5) is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, embryonic stem cells, and select endothelium and epithelium. ITGAV & ITGB5 binds ligands containing an RGD motif, notably vitronectin. Growth factors that increase PKC activity, such as VEGF or TGF alpha, promote ITGAVB5-mediated angiogenesis while alpha V beta 3, which may be expressed in the same cell, responds to FGF-basic and TNF alpha. An inhibitor of both down regulates tumor angiogenesis. During lung inflammation, up regulation of ITGAVB5 on myofibroblasts or infiltrating lymphocytes may contribute to fibrosis by freeing TGF beta from latency.



The purity of Human ITGAV&ITGB5 Heterodimer Protein, His Tag was determined by DTT-reduced (+) SDS-PAGE and staining overnight with Coomassie Blue.

RELATED PRODUCT:

- Anti-alpha 5 beta 1 Integrin (Volociximab), Human IgG4 Antibody (Cat. No. A1092-200)
- Human CellExp™ CD155, human recombinant (Cat. No. 7462-10, -50)
- Human CellExp™ CD160/BY55, human recombinant (Cat. No. 7386-10, -50)
- Human CellExp™ CD166/ ALCAM, human recombinant (Cat. No. 7437-10, -50)
- Human CellExp™ CD172A / SIRP, human recombinant (Cat. No. 7506-10, -50)
- Human CellExp™ CD33 / SIGLEC-3, human recombinant (Cat. No. 7370-10, -50)
- Human CellExp™ CD47, human recombinant (Cat. No. 7385-10, -50)
- Human CellExp™ CD55/DAF, human recombinant (Cat. No. 7432-10, -50)
- Human CellExp™ CD58 /LFA-3, human recombinant (Cat. No. 7427-10, -50)
- Human CellExp™ CD62E/E-Selectin, human recombinant (Cat. No. 7434-20, -100)
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (Cat. No. 7279-10, -50)
- Human CellExp™ CD273, human recombinant (Cat. No. 7369-10, -50)
- Human CellExp™ CD36, human recombinant (Cat. No. 7371-10, -50)
- Human CellExp™ CD87, human recombinant (Cat. No. 7372-20, -100)

FOR RESEARCH USE ONLY! Not to be used on humans.