Active Recombinant Human ITGA5 & ITGB1 protein, Flag & His-tagged

Cat. No. ITGA5 & ITGB1-1878H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ITGA5 & ITGB1 protein(NP_002196.4) was fused to Flag & His-tagged and expressed in HEK293.
Species	Human
Source	HEK293
Description	The product of this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha subunit and a beta subunit that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 5 subunit. This subunit associates with the beta 1 subunit to form a fibronectin receptor. This integrin may promote tumor invasion, and higher expression of this gene may be correlated with shorter survival time in lung cancer patients. Note that the integrin alpha 5 and integrin alpha V subunits are encoded by distinct genes.
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Testing in progress
Molecular Mass	The recombinant heterodimer of human ITGA5/ITGB1 comprises 1745 (996 + 749) amino acids and has a calculated molecular mass of 192 (109 + 83) kDa. As a result

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	of glycosylation, the apparent molecular mass of rh ITGA5/ITGB1 heterodimer is approximately 120 &140 kDa in SDS-PAGE under reducing conditions
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	ITGA5
Official Symbol	ITGA5
Synonyms	CD49e Protein, Human; FNRA Protein, Human; VLA-5 Protein, Human; VLA5A Protein, Human
Gene ID	3678

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_002205.5
Protein Refseq	NP_002196.4
UniProt ID	P08648

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA