

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°C to -80°C. 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