

## Integrin alpha 5 beta 1 Protein, Human, Recombinant (Flag & His)

### General Information

Synonyms:	Integrin alpha 5 $\beta$ 1; Integrin $\alpha$ 5 $\beta$ 1; integrin, $\alpha$ 5 (fibronectin receptor, $\alpha$ polypeptide); VLA-5; FNRA; integrin, alpha 5 (fibronectin receptor, alpha polypeptide); VLA5A; CD49e
Protein Construction:	A DNA sequence encoding the extracellular domain (Met 1-Tyr 995) of human ITGA5 (P08648) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met 1-Asp 728) of human ITGB1 (P05556-1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified Predicted N terminal: Phe 42 & Gln 21
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08648&P05556-1
Molecular Weight:	192 kDa (predicted); 120 & 140 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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