

Integrin alpha V beta 3 Protein, Human, Recombinant (His)

General Information

Synonyms:	Integrin α V β 3; Integrin alpha V β 3
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Val992) of human ITGAV (P06756) was fused with a his tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Asp718) of human ITGB3 (P05106) constructed the plasmid 2. The two plasmids were co-expressed and the human ITGAV&ITGB3 heterodimer was purified. Predicted N terminal: Phe31 & Gly27
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P06756&P05106
Molecular Weight:	193.32 kDa (predicted)

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:	≥ 95 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a $0.22 \mu\text{m}$ 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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Integrin alpha-V & beta-3 (ITGAV/ITGB3) is a receptor for cytotactin, fibronectin, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin, vitronectin and von Willebrand

factor.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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