

General Information

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

Organism

Human

Expression Host

Human Cells

QC Testing

Purity

> 90 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70°C

Predicted N terminal

Phe 42 & Gln 21

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 of glycosylation, the apparent molecular mass of rh ITGA5/ITGB1 heterodimer is approximately 120 & 140 kDa in SDS-PAGE under reducing conditions

Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

Usage Guide

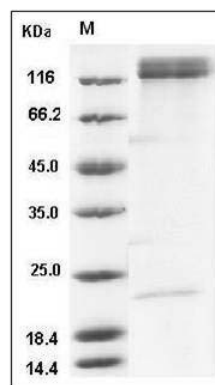
Storage

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

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human ITGA5 & ITGB1 Heterodimer Protein SDS-PAGE