

Integrin alpha 2 beta 1 Protein, Cynomolgus, Recombinant (His)

General Information

Synonyms:	alpha A1 beta 1;alpha A1 β 1;beta 1;Integrin alpha A1 β 1; β 1;alpha A1;Integrin alpha A1 beta 1;ITGA&ITGB;ITGA1&ITGB1; α 2 β 1;VLA-2, GPIa-IIa, CD49b
Protein Construction:	Tyr30-Pro1130 (ITGA2) acidic tail and Gln161-Asp868 (ITGB1) basic tail
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	G8F2Z5(ITGA2)&A0A7N9D0D7(ITGB1)
Molecular Weight:	126.69 kDa (ITGA2) and 83.16 kDa (ITGB1) (Predicted); 130-170 kDa (ITGA2) and 100-130 kDa (ITGB1) (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 90% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

The α 2 β 1 integrin, also known as VLA-2, GPIa-IIa, CD49b, was first identified as an extracellular matrix receptor for collagens and/or laminins. It is now recognized that the α 2 β 1 integrin serves as a receptor for many matrix and nonmatrix molecules. It plays a critical role in platelet function and homeostasis.

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