

Integrin alpha 2 beta 1 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	$\alpha 2\beta 1$; Integrin alpha A1 beta 1; ITGA1&ITGB1; $\beta 1$; VLA-2, GPIa-IIa, CD49b; ITGA&ITGB; alpha A1 $\beta 1$; beta 1; alpha A1; alpha A1 beta 1; Integrin alpha A1 $\beta 1$
Protein Construction:	Tyr30-Thr1132 (ITGA2) and Gln21-Asp728 (ITGB1)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P17301(ITGA2)&P05556-1(ITGB1)
Molecular Weight:	128.45 kDa (ITGA2) and 83.19 kDa (ITGB1) (Predicted); 110-130 kDa and 140-160 kDa (Reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.1 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 $\alpha 2\beta 1$ 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 $\alpha 2\beta 1$ integrin serves as a receptor for many matrix and nonmatrix molecules. It plays a critical role in platelet function and homeostasis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481