

## Integrin alpha 6 beta 1 Protein, Human, Recombinant (His & Avi)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | $\alpha 6\beta 1$ ; ITGA6&ITGB1; Integrin alpha 6 beta 1; Integrin alpha 6 $\beta$ 1   |
| Protein Construction: | Phe24-Gly1012 (ITGA6) acidic tail and Gln21-Asp728 (ITGB1) basic tail  |
| Species:              | Human  |
| Expression Host:      | HEK293 Cells   |
| Accession:            | P23229-2 (ITGA6)&P05556-1 (ITGB1)  |
| Molecular Weight:     | 117.9 kDa (ITGA6) and 83.2 kDa (ITGB1) (Predicted); 140-160 kDa (ITGA6) and 110-150 kDa (ITGB1) (Non-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   |
| Endotoxin:           | < 1 EU/ $\mu$ g of the protein as determined by the LAL method.  |
| Formulation:         | Lyophilized from 0.22 $\mu$ 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  $\mu$ 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

Integrin alpha-6/beta-1 (ITGA6:ITGB1) is a receptor for laminin on platelets. Integrin alpha-6/beta-1 (ITGA6:ITGB1) is present in oocytes and is involved in sperm-egg fusion. Integrin alpha-6/beta-4 (ITGA6:ITGB4) is a receptor for laminin in epithelial cells and it plays a critical structural role in the hemidesmosome (By similarity). ITGA6:ITGB4 binds to NRG1 (via EGF domain) and this binding is essential for NRG1-ERBB signaling

**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