

# Recombinant Human ITGB1/CD29 Protein

Catalog No.: RP00232 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3688	P05556

### Tags

C-His

### Synonyms

CD29;FNRRB;GPIIA;MDF2;MSK12;VLA-BETA;VLAB;Integrin beta 1;ITGB1;Integrin  $\beta$ 1;Integrin- $\beta$ 1/CD29

## Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
81.41 kDa	100-130 kDa

### Endotoxin

< 0.1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Integrins are heterodimeric proteins made up of alpha and beta subunits. At least 18 alpha and 8 beta subunits have been described in mammals. Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling). Integrin beta-1 can help to regulate cell proliferation, cytoskeletal reorganization, and gene expression. Research studies have integrin beta-1 integrin in various activities including embryonic development, blood vessel, skin, bone, and muscle formation, as well as tumor metastasis and angiogenesis.

## Basic Information

### Description

Recombinant Human ITGB1/CD29 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Asp728) of human ITGB1/Integrin beta-1/CD29 (Accession #NP\_002202.2) fused with a 6 $\times$ His tag at the C-terminus.

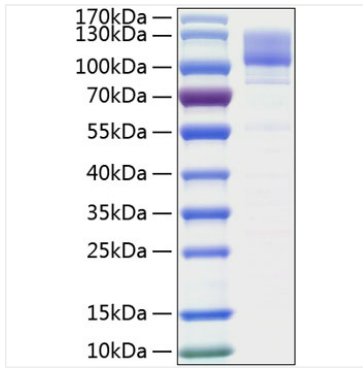
### Bio-Activity

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human ITGB1/Integrin beta-1/CD29 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-130 kDa.