

Integrin alpha 2B beta 3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700754
Synonyms:	$\alpha 2B\beta 3$; ITGA2B&ITGB3; ITGA2B; ITGB3
Species:	Mouse
Source:	HEK293
Accession:	Q9QUM0 (L32-R988)&O54890 (E26-D717)
Gene ID:	16399&16416
Molecular Weight:	90-113 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The Integrin alpha-IIb/beta-3 protein is a multifaceted receptor with broad ligand recognition capabilities, including binding to fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin, and vitronectin through the R-G-D sequence. Specifically, it recognizes the H-H-L-G-G-A-K-Q-A-G-D-V sequence in the fibrinogen gamma chain. Upon activation, Integrin alpha-IIb/beta-3 facilitates platelet-platelet interactions by binding soluble fibrinogen, leading to rapid platelet aggregation that forms a physical plug on the ruptured endothelial cell surface. Structurally, it forms a heterodimer, with the alpha subunit consisting of a heavy and a light chain linked by a disulfide bond, and the alpha-IIb subunit associates with beta-3. Additionally, Integrin alpha-IIb/beta-3 directly interacts with RNF181, and its cytoplasmic tail region interacts with CIB1, CIB2, CIB3, and CIB4 in a calcium and magnesium-dependent manner. Furthermore, its interaction with PPIA/CYPA is ROS and PPIase activity-dependent and is increased in the presence of thrombin. This diverse range of interactions highlights the integral role of Integrin alpha-IIb/beta-3 in platelet function and hemostasis.</p>
------------	--

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA