

ITGB6 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700769
Synonyms:	Integrin beta-6; ITGB6; Integrin β -6
Species:	Mouse
Source:	HEK293
Accession:	Q9Z0T9 (G22-N706)
Gene ID:	16420
Molecular Weight:	80-115 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-V:beta-6 protein (ITGAV:ITGB6) operates as a versatile receptor, recognizing the R-G-D sequence in its ligands such as fibronectin and cytotactin. Additionally, ITGAV:ITGB6 acts as a receptor for fibrillin-1 (FBN1), mediating R-G-D-dependent cell adhesion to FBN1. A crucial role of ITGAV:ITGB6 is highlighted in the mediation of R-G-D-dependent release of transforming growth factor beta-1 (TGF-beta-1) from the regulatory Latency-associated peptide (LAP), playing a key role in TGF-beta-1 activation. Structurally, ITGAV:ITGB6 forms a heterodimer, consisting of an alpha and a beta subunit. It interacts with FLNB and HAX1, underscoring its involvement in various cellular processes. Furthermore, ITGAV:ITGB6 interacts with FBN1 and TGFBI, emphasizing its integral role in cell adhesion and the activation of TGF-beta-1 signaling pathways. This diverse range of interactions establishes ITGAV:ITGB6 as a pivotal player in cellular responses and regulatory mechanisms.</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