

Integrin alpha A1 beta 1 Protein, Human (HEK293, His)

Cat. No.:	HY-P700756
Synonyms:	Integrin alpha A1 beta 1; alpha A1 beta 1; alpha A1; beta 1; ITGA1&ITGB1; ITGA&ITGB; Integrin alpha A1 β 1; alpha A1 β 1; β 1
Species:	Human
Source:	HEK293
Accession:	P56199-1 (F29-P1141)&P05556 (Q21-D728)
Gene ID:	3672&3688
Molecular Weight:	160-200 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of 50 mM Tris, 150 mM NaCl, pH 7.5. 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	The ITGA1 protein, also known as integrin alpha-1/beta-1, functions as a receptor for laminin and collagen. It specifically recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Additionally, ITGA1 is involved in the anchorage-dependent negative regulation of EGF-stimulated cell growth. It forms a heterodimer with a beta subunit, associating with beta-1. ITGA1 also interacts with RAB21 and with PTPN2, activating PTPN2 phosphatase activity towards EGFR and exerting a negative regulation on EGF signaling.
------------	--

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