

Integrin alpha 10 beta 1 Protein, Human (HEK293, His)

Cat. No.:	HY-P700750
Synonyms:	Integrin alpha 10 beta 1; ITGA10&ITGB1; $\alpha 10\beta 1$
Species:	Human
Source:	HEK293
Accession:	O75578-1 (F23-S1122)&P05556-1 (Q21-D728)
Gene ID:	/
Molecular Weight:	140-160 kDa (ITGA10) & 100-130 kDa (ITGB)

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μg , determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ 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	Integrin alpha-10/beta-1, a cell surface receptor, plays a pivotal role as a specific receptor for collagen, mediating cellular interactions with the extracellular matrix. This integrin functions as a heterodimer, consisting of an alpha-10 subunit and a beta-1 subunit. The alpha-10 subunit forms a crucial association with the beta-1 subunit, creating a stable heterodimeric complex. Through this interaction, Integrin alpha-10/beta-1 contributes to various cellular processes by facilitating adhesion and signaling events in response to collagen, thereby influencing crucial aspects of cell behavior and tissue organization. Unraveling the nuances of Integrin alpha-10/beta-1's interactions provides insights into its significance in mediating cell-matrix interactions and its potential implications in physiological and pathological contexts.
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Caution: Product has not been fully validated for medical applications. For research use only.

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