

Recombinant Human ITGA5 Protein (His Tag)

Catalog No. PKSH032600

Note: Centrifuge before opening to ensure complete recovery of vial contents.

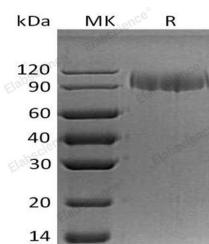
Description

Synonyms	Integrin Alpha-5;CD49 Antigen-Like Family Member E;Fibronectin Receptor Subunit Alpha;Integrin Alpha-F;VLA-5;CD49e;ITGA5;FNRA
Species	Human
Expression Host	HEK293 Cells
Sequence	Phe42-Tyr995
Accession	P08648
Calculated Molecular Weight	105.1 kDa
Observed molecular weight	130 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Integrin α -5 belongs to the Integrin α chain family and contains 7 FG-GAP repeats. Integrin α -5 joins with Integrin- β 1 to

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form a fibronectin and laminin receptor which recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection; the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. It is expressed on fibroblasts; endothelial cells; peripheral T cells and platelets. Integrin α -5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains. In addition to adhesion; ITGA5 participates in cell-surface mediated signalling.