Recombinant Human DPP4/DPPIV/CD26 Protein (His Tag)

Catalog No. PKSH033695

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

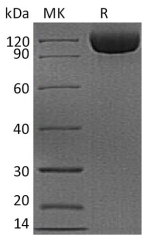
Description

Synonyms	Dipeptidyl peptidase 4;ADABP;Adenosine deaminase complexing protein 2;ADCP-2;Dipeptidyl peptidase IV;DPP IV;T-cell activation antigen CD26
Species	Human
Expression Host	HEK293 Cells
Sequence	Asn29-Pro766
Accession	P27487
Calculated Molecular Weight	86.4 kDa
Observed molecular weight	90-130 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % 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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Tris-HCl, 10% Trehalose, 100mM NaCl, 0.05% Tween 80, pH 8.5. 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



> 95 % as determined by reducing SDS-PAGE.

Background

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CD26 is a signal-anchor for type II membrane protein that belongs to the peptidase S9B family. CD26 is expressed specifically in lymphatic vessels but not in blood vessels in the skin; small intestine; esophagus; ovary; breast and prostate glands. It acts as a positive regulator of T-cell coactivation; by binding at least ADA; CAV1; IGF2R; and PTPRC. It's binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM); the migration and invasion of endothelial cells into the ECM. It may be involved in the promotion of lymphatic endothelial cells adhesion; migration and tube formation. When overexpressed; it enhanced cell proliferation; a process inhibited by GPC3. It acts also as a serine exopeptidase with a dipeptidyl peptidase activity that regulates various physiological processes by cleaving peptides in the circulation; including many chemokines; mitogenic growth factors; neuropeptides and peptide hormones.

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