

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

**Catalog Number:** PKSH033695

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

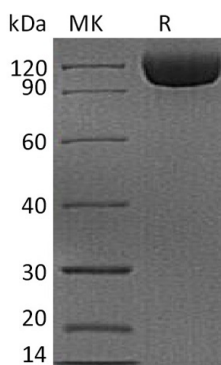
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human DPP4;DPPIV;CD26 protein Asn29-Pro766, with an C-terminal His
<b>Calculated MW</b>	86.4 kDa
<b>Observed MW</b>	90-130 kDa
<b>Accession</b>	P27487
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	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.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

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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.