

## General Information

### Gene Name Synonym

ADABP; Adenosine deaminase complexing protein 2; Dipeptidyl peptidase IV; T-cell activation antigen CD26; TP103; Dipeptidyl peptidase 4 membrane form; Dipeptidyl peptidase IV membrane form; Dipeptidyl peptidase 4 soluble form; Dipeptidyl peptidase IV soluble form

### Protein Construction

The native mature form of human DPPIV (NP\_001926.2) extracellular domain (Asn 29-Pro 766) was expressed and purified.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Pro-7-amido-4-methylcoumarin (GP-AMC). The specific activity is > 2,500 pmoles/min/μg.
2. Using the Octet RED System, the affinity constant (Kd) of human DPP4 (Cat: 502818) bound to Spike (HCoV-EMC/2012) (Cat: 503810) was 20 nM.
3. Using the Octet RED System, the affinity constant (Kd) of human DPP4 (Cat: 502818) bound to Spike (HCoV-EMC/2012) (Cat: 503542) was 50 nM.
4. Using the Octet RED System, the affinity constant (Kd) of human DPP4 (Cat: 502818) bound to Spike (HCoV-EMC/2012) (ECD, aa 1-1297) (Cat: 503176) was 33 nM.
5. Using the Octet RED System, the affinity constant (Kd) of human DPP4 (Cat: 502818) bound to Spike-His (aa 1-760) (Cat: 500181) was 12 nM.

### Purity

> 70 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Asn 29

### Molecular Mass

The recombinant human DPPIV exists as the mature active form, and consists of 738 amino acids with a predicted molecular mass of 85.4 kDa. The apparent molecular mass of the glycosylated rhDPPIV is approximately 95 kDa in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile 100mM NaCl, 50mM Tris, pH 7.5
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

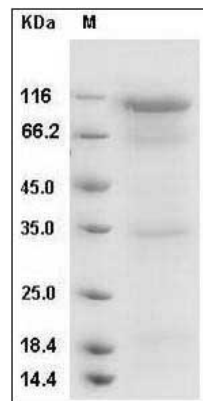
# Human DPP4 / CD26 recombinant protein



Catalog Number: 502818

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## SDS-PAGE



Human DPP4 / DPPIV / CD26 Protein SDS-PAGE