

# Human DPP4 / CD26 (Fc Tag) recombinant protein



Catalog Number: 504194

## 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

A DNA sequence encoding the extracellular domain (Asn 29-Pro 766) of the mature form of human DPPIV (NP\_001926.2) was expressed with the fused Fc region of human IgG1 at the N-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to bind recombinant Cynomolgus CXCL12 in a functional ELISA.
2. Measured by its ability to bind recombinant Human SDF1b in a functional ELISA.
3. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV (Cat: 504194) bound to Spike (HCoV-EMC/2012) (Cat: 503810) was 11 nM.
4. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV (Cat: 504194) bound to Spike (HCoV-EMC/2012) (Cat: 503542) was 32 nM.
5. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV (Cat: 504194) bound to Spike (HCoV-EMC/2012) (ECD, aa 1-1297) (Cat: 503176) was 43 nM.
6. Using the Octet RED System, the affinity

constant (Kd) of human Fc-DPPIV (Cat: 504194) bound to Spike-His (aa 1-760) (Cat: 500181) was 12 nM.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g 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

Glu 20

### Molecular Mass

The recombinant human Fc/DPPIV is a disulfide-linked homodimeric protein. The reduced monomer consists of 975 amino acids and has a predicted molecular mass of 112 kDa. As a result of glycosylation, the apparent molecular mass of rhFc/DPPIV monomer is approximately 120-130 kDa in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
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.

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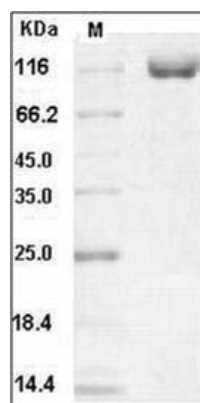
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## Reconstitution

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

## SDS-PAGE



Human DPP4 / DPPIV / CD26 Protein (Fc Tag)  
SDS-PAGE