

Datasheet for ABIN7195428

**DPP4 Protein (Fc Tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	50 µg
Target:	DPP4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DPP4 protein is labelled with Fc Tag.

## Product Details

Purpose:	Recombinant Human DPP4/DPPIV/CD26 Protein (Fc Tag)(Active)
Sequence:	Asn 29-Pro 766
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	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 bound to Spike (HCoV-EMC/2012) was 11 nM.4. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPPIV bound to Spike (HCoV-EMC/2012) was 32 nM.5. Using the Octet RED System, the

## Product Details

affinity constant (Kd) of human Fc-DPP4 bound to Spike (HCoV-EMC/2012) (ECD, aa 1-1297) was 43 nM.6. Using the Octet RED System, the affinity constant (Kd) of human Fc-DPP4 bound to Spike-His (aa 1-760) was 12 nM.

## Target Details

Target:	DPP4
Alternative Name:	DPP4/DPPIV/CD26 ( <a href="#">DPP4 Products</a> )
Background:	<p>Background: Dipeptidyl peptidase-4 (DPP4) or adenosine deaminase complexing protein 2 (ADCP 2) or T-cell activation antigen CD26 is a serine exopeptidase belonging to the S9B protein family that cleaves X-proline dipeptides from the N-terminus of polypeptides, such as chemokines, neuropeptides, and peptide hormones. The enzyme is a type II transmembrane glycoprotein, expressed on the surface of many cell types. It is also present in serum and other body fluids in a truncated form (sCD26/DPPIV). The soluble CD26 (sCD26) as a tumour marker for the detection of colorectal cancer (CRC) and advanced adenomas. As both a regulatory enzyme and a signalling factor, DPP4 has been evaluated and described in many studies. DPP4 inhibition results in increased blood concentration of the incretin hormones glucagon-like peptide-1 (GLP-1) and gastric inhibitory polypeptide (GIP). This causes an increase in glucose-dependent stimulation, resulting in a lowering of blood glucose levels. Recent studies have shown that DPP4 inhibitors can induce a significant reduction in glycosylated haemoglobin (HbA(1c)) levels, either as monotherapy or as a combination with other antidiabetic agents. Research has also demonstrated that DPP4 inhibitors portray a very low risk of hypoglycaemia development, and are a new pharmacological class of drugs for treating Type 2 diabetes.</p> <p>Synonym: Dipeptidyl peptidase 4, ADABP, Adenosine deaminase complexing protein 2, ADCP-2, Dipeptidyl peptidase IV, DPP IV, T-cell activation antigen CD26</p>
Molecular Weight:	112 kDa
NCBI Accession:	<a href="#">NP_001926</a>
Pathways:	<a href="#">Peptide Hormone Metabolism</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a>

## Application Details

Restrictions: For Research Use only

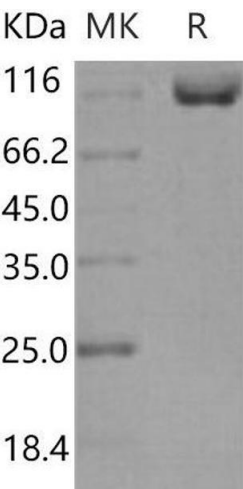
## Handling

Format: Lyophilized

Handling

Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.

Images



**Western Blotting**

**Image 1.**