

DPP4 / DPPIV / CD26 active protein

Recombinant Human DPP4 / DPPIV / CD26 Protein (Fc tag)

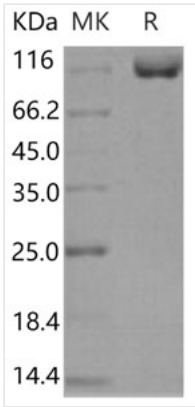
CATALOG # AAA173512	HOST HEK293 Cells	REACTIVITY Human
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PRODUCT SYNONYMS

DPP4 / DPPIV / CD26; Recombinant Human DPP4 / DPPIV / CD26 Protein (Fc tag); DPP4; ADABP; ADCP2; CD26; DPPIV; TP103; Dipeptidyl peptidase 4; Adenosine deaminase complexing protein 2; ADCP-2; Dipeptidyl peptidase IV; DPP IV; T-cell activation antigen CD26; DPP4 / DPPIV / CD26 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Reactivity	Human
Purity/Purification	>95 % as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from sterile 25 mM MES, 150 mM NaCl, pH 6.5, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.
Sequence	Asn29-Pro7 66
Tag	N-Fc
Bio 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. Loaded Fc-DPPIV on a ProA Biosensor, can bind MERS-CoV Spike/RBD Protein fragment (RBD, aa 367-606, His Tag) with an affinity constant of 1.04 nM as determined by Octet RED System. 4. Loaded Fc-DPPIV on a ProA Biosensor, can bind MERS-CoV Spike/S1 Protein (S1 Subunit, aa 1-725, His Tag) with an affinity constant of 0.02 nM as determined by Octet RED System. 5. Loaded Fc-DPPIV on ProA Biosensor, can bind MERS-CoV Spike/RBD Protein fragment (RBD, aa 267-606, His Tag) with an affinity constant of 1.04 nM as determined by Octet RED System. 6. Loaded Fc-DPPIV on a ProA Biosensor, can bind MERS-CoV Spike/S1 Protein (S1 Subunit, aa 1-725, His Tag) with an affinity constant of 0.02 nM as determined by Octet RED System.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
Reconstitution	Recommended that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for DPP4 / DPPIV / CD26 active protein	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 type s. 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. Description: 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18765694
NCBI GeneID	1803
NCBI Accession #	NP_001926.2
NCBI GenBank Nucleotide #	NM_001935.3
UniProt Accession #	P27487; Q53TN1
Molecular Weight	Mol Mass: 112 kDa AP Mol Mass: 120-130 kDa
NCBI Official Full Name	dipeptidyl peptidase 4
NCBI Official Synonym Full Names	dipeptidyl peptidase 4
NCBI Official Symbol	DPP4
NCBI Official Synonym Symbols	CD26; ADABP; ADCP2; DPPIV; TP103
NCBI Protein Information	dipeptidyl peptidase 4
UniProt Protein Name	Dipeptidyl peptidase 4
UniProt Gene Name	DPP4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-human-active-protein/dpp4-dppiv-cd26/173512>