Active Recombinant Human DPP4 Protein (29-766aa), C-hIgG-tagged

Cat. No. DPP4-10H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DPPIV/CD26 (29-766aa), fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	29-766 aa
Description	DPP4, dipeptidyl peptidase-4 is a complex enzyme expressed on the surface of most cell types and is a serine exopeptidase that cleaves x-proline dipeptides from the N-terminus of polypeptides. DPP4 protein is associated with intracellular signal transduction, apoptosis and plays an important role in tumor biology. There are at least 63 substrates which can bind specifically to DPP4 enzyme including growth factors, chemokines, neuro peptides. Furthermore, DPP4 plays a major role in glucose metabolism by cleaving incretins such as glucose-dependent insulinotropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1). Middle East respiratory syndrome coronavirus has been found to bind to DPP4. It is found on the surface of cells in the airways and kidneys.
Form	Liquid
Bio-activity	1.Measured by its binding ability in a functional ELISA with MERS-CoV Spike S1

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	Subunit. The ED50 range ≤250 ng/mL. 2.Measured by its binding ability in a functional ELISA with MERS-CoV Spike RBD. The ED50 range ≤200 ng/mL. 3.Measured by its binding ability in a functional ELISA with MERS-CoV Spike. The ED50 range ≤120 ng/mL. 4.Specific activity is > 15,000 pmol/min/μg in which one unit defined as the amount of enzyme that hydrolyze 1pmole of H-Gly-Pro-AMC.HBr to H-Gly-Pro and AMC per minute at pH 8.0 at 37 centigrade.
Molecular Mass	112.1 kDa (977 aa)
AA Sequence	NKGTDDATADSRKTYTLTDYLKNTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGN SSVFLENSTFDEFGHSINDYSISPDGQFILLEYNYVKQWRHSYTASYDIYDLNKRQLIT EERIPNNTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIIYNGITDWV YEEEVFSAYSALWWSPNGTFLAYAQFNDTEVPLIEYSFYSDESLQYPKTVRVPYPKA GAVNPTVKFFVVNTDSLSSVTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLR RIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFY KIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPGGRNL YKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSVND KGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFWYQMILPPHFDKSKKYPLLLDV YAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEV EDQIEAARQFSKMGFVDNKRIAIWGWSYGGYVTSMVLGSGSGVFKCGIAVAPVSR WEYYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHF QQSAQISKALVDVGVDFQAMWYTDEDHGIASSTAHQHIYTHMSHFIKQCFSLP
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity, Bioactivity

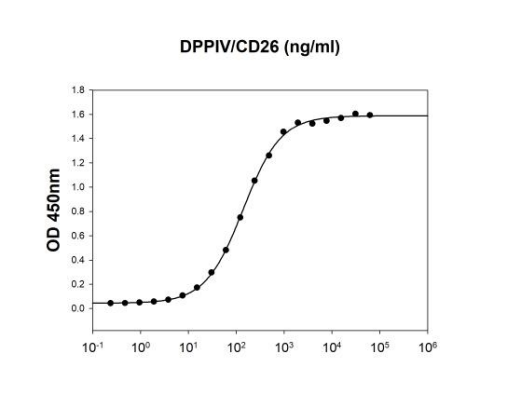
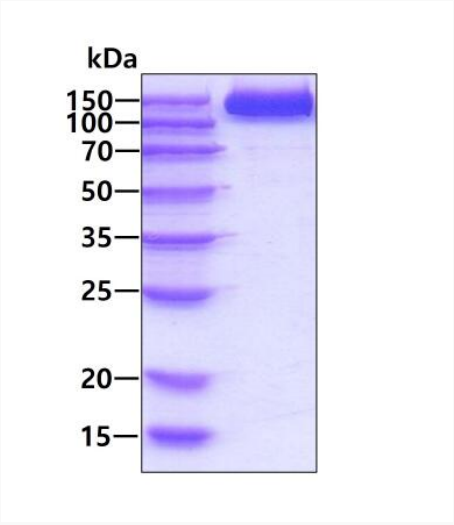
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Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280 nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	DPP4 dipeptidyl-peptidase 4 [Homo sapiens (human)]
Official Symbol	DPP4
Synonyms	DPP4; dipeptidyl-peptidase 4; ADCP2, adenosine deaminase complexing protein 2 , CD26, dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); dipeptidyl peptidase 4; DPPIV; ADCP-2; DPP IV; dipeptidylpeptidase 4; dipeptidyl peptidase IV; T-cell activation antigen CD26; adenosine deaminase complexing protein 2; dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); CD26; ADABP; ADCP2; TP103
Gene ID	1803
mRNA Refseq	NM_001935
Protein Refseq	NP_001926
MIM	102720

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UniProt ID	P27487
Biological Activity	 MERS-CoV Spike S1 Subunit is coated at 2 μg/mL (100 μL/well) can bind IgK-DPP4. The ED50 range ≤250 ng/mL.
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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