

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

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

SPECIFICATION

Product Overview	Recombinant human DPP4/CD26 (29-766aa), fused to hlgG-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/ μ g 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

NKGTDDATADSRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGN
SSVFLENSTFDEFGHSINDYSISPDGQFILLEYNVVKQWRHSYTASYDIYDLNKRQLIT
EERIPNNTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRITWTGKEDIYNGITDWV
YEEEVFSAYSALWWSPNGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKA
GAVNPTVKFFVNTDSLSSVTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLR
RIQNYSVMDICDYDESSGRWNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFY
KIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPPGGRNL
YKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSVND
KGLRVLEDNSALDKMLQNVQMPSKKLDFIILNETKFWYQMILPPHFDKSKKYPLLLDV
YAGPCSQKADTVFRLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEV
EDQIEAARQFSKMGFVDNKRIAIWGSYGGYVTSMLVLSGSGVFKCGIAVAPVSR
WEYYDSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNVHF
QQSAQISKALVDVGVDVFQAMWYTDDEDHGIIASSTAHQHIYTHMSHFIKQCFSPLP

Endotoxin < 1 EU/ μ g of protein (determined by LAL method)

Purity $> 95\%$ by SDS-PAGE

Applications SDS-PAGE, Enzyme Activity, Bioactivity

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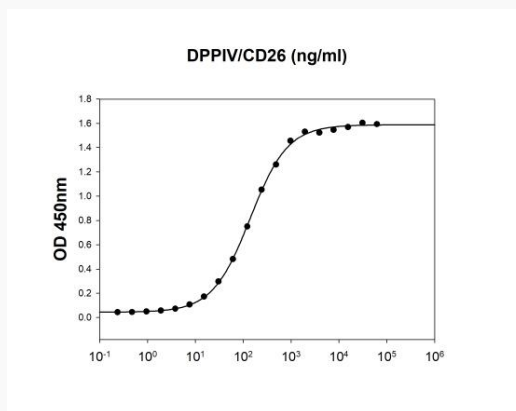
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Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated 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

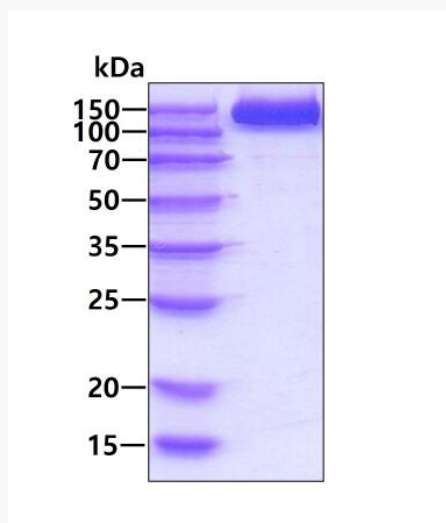
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UniProt ID
P27487
Biological Activity


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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