

Datasheet for ABIN7596114
DPP4 Protein (AA 29-766) (Fc Tag)



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Overview

Quantity:	250 µg
Target:	DPP4
Protein Characteristics:	AA 29-766
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DPP4 protein is labelled with Fc Tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	<p>NKGTDD ATADSRKTYT LTDYLKNTYR LKLYSLRWIS DHEYLYKQEN NILVFNAEYG NSSVFLENST</p> <p>FDEFGHSIND YSISPDGQFI LLEYNVVKQW RHSYTASYDI YDLNKRQLIT EERIPNNTQW</p> <p>VTWSPVGHKL AYVWNNDIYV KIEPNLPSYR ITWTGKEDII YNGITDWVYE EEVFSAYSAL</p> <p>WWSPNGTFLA YAQFNDTEVP LIEYSFYSD E SLQYPKTVRV PYPKAGAVNP TVKFFVNTD</p> <p>SLSSVTNATS IQITAPASML IGDHYLCDVT WATQERISLQ WLRRIQNYSV MDICDYDESS</p> <p>GRWNCLVARQ HIEMSTTGWV GRFRPSEPHF TLDGNSFYKI ISNEEGYRHI CYFQIDKKDC</p> <p>TFITKGTWEV IGIEALTSYD LYYISNEYKG MPGGRNLYKI QLSDYTKVTC LSCELNPERC</p> <p>QYYSVSFSKE AKYYQLRCSG PGLPLYTLHS SVNDKGLRVL EDNSALDKML QNVQMPSKKL</p> <p>DFIILNETKF WYQMILPPHF DKSKKYPLLL DVYAGPCSQK ADTVFRLNWA TYLASTENII</p> <p>VASFDGRGSG YQGDKIMHAI NRRLGTFEVE DQIEAARQFS KMGFVDNKRI AIWGWSYGGY</p> <p>VTSMVLGSGS GVFKCGIAVA PVSWEYYS VYTERYMGLP TPEDNLDHYR NSTVMSRAEN</p>
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Product Details

FKQVEYLLIH GTADDNVHFQ QSAQISKALV DVGVDVFQAMW YTDEDHGIAS STAHQHIYTH
MSHFIKQCFS LP

Purity: > 95% by SDS-PAGE

Endotoxin Level: < 1 EU per 1ug of protein (determined by LAL method)

Biological Activity Comment: 1.Measured by its binding ability in a functional ELISA with MERS-CoV Spike S1 Subunit (CAT# ATGP3980). The ED50 range ≤ 250 ng/ml.,2.Measured by its binding ability in a functional ELISA with MERS-CoV Spike RBD (CAT# ATGP4111). The ED50 range ≤ 200 ng/ml.,3.Measured by its binding ability in a functional ELISA with MERS-CoV Spike (CAT# ATGP4112). The ED50 range ≤ 120 ng/ml.,4.Specific activity is > 15,000 pmol/min/ug 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°C.

Target Details

Target: DPP4

Alternative Name: CD26/DPP4 ([DPP4 Products](#))

Background: 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 insulintropic 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. Recombinant human DPPIV/CD26, fused to hlgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Molecular Weight: 112.1kDa (977aa)

NCBI Accession: [NP_001926](#)

Pathways: [Peptide Hormone Metabolism](#), [Regulation of Leukocyte Mediated Immunity](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	0.25 mg/mL
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Storage:	4 °C,-20 °C,-80 °C
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Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.
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