

Active Recombinant Human DPP4 protein

Cat. No. DPP4-270H Lot. No. (See product label)

SPECIFICATION

Product Overview Active Recombinant Human DPP4 protein(NP_001926.2) extracellular domain (Asn 29-Pro 766) was expressed and purified in HEK293.

Species Human

Source HEK293

ProteinLength 29-766 aa

Form Lyophilized from sterile 100mM NaCl, 50mM Tris, pH 7.5.

Bio-activity 1. Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Pro-7-amid o-4-methylcoumarin (GP-AMC). The specific activity is > 2,500 pmoles/min/μg. 2. Using the Octet RED System, the affinity constant (Kd) of human DPP4 bound to Spike (HCoV-EMC/2012) was 20 nM. 3. Using the Octet RED System, the affinity constant (Kd) of human DPP4 bound to Spike (HCoV-EMC/2012) was 50 nM. 4. Using the Octet RED System, the affinity constant (Kd) of human DPP4 bound to Spike (HCoV-EMC/2012) (ECD, aa 1-1297) was 33 nM. 5. Using the Octet RED System, the affinity constant (Kd) of human DPP4 bound to Spike-His (aa 1-760) was 12 nM.

Molecular Mass The recombinant human DPPIV exists as the mature active form, and consists of 738 amino acids with a predicted molecular mass of 85.4 kDa. The apparent molecular mass of the glycosylated rhDPPIV is approximately 95 kDa in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	> 70 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	DPP4 dipeptidyl-peptidase 4 [Homo sapiens]
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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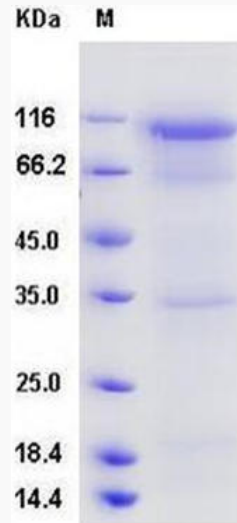
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UniProt ID

P27487

SDS-PAGE



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