

Human DPPIV/CD26 Protein

Cat. No. DPV-HM226

Description

Source	Recombinant Human DPPIV/CD26 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Asn29-Pro766.
Accession	P27487
Molecular Weight	The protein has a predicted MW of 111.2 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD26/dipeptidyl peptidase (DPP)IV is a membrane-bound protein found in many cell types of the body, and a soluble form is present in body fluids. There is longstanding evidence that various primary tumors and also metastases express DPPIV/CD26 to a variable extent.

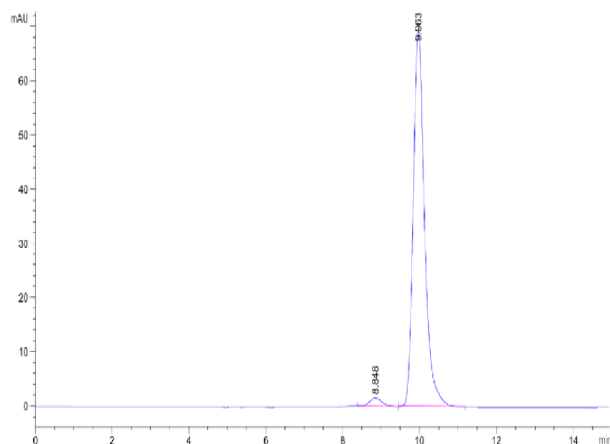
Assay Data

Tris-Bis PAGE



Human DPPIV on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



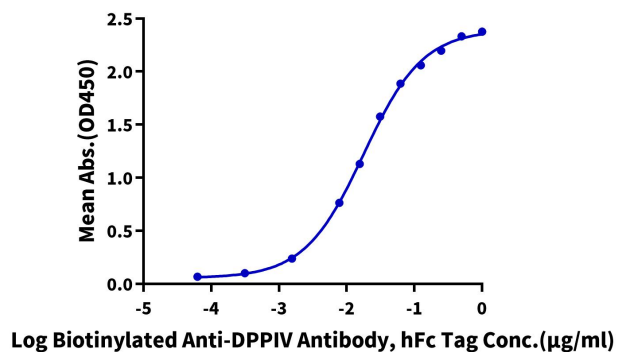
The purity of Human DPPIV is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human DPPIV, hFc Tag ELISA

0.1µg Human DPPIV, hFc Tag Per Well



Immobilized Human DPPIV, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-DPPIV Antibody, hFc Tag with the EC50 of 17.9ng/ml determined by ELISA (QC Test).

Bioactivity Data

Measured by its ability to cleave the fluorogenic peptide substrate, Gly-Pro-7-amido-4-methylcoumarin (GP-AMC). The specific activity is > 3500 pmol/min/µg (QC Test).