Dpp4
Recombinant Mouse DPP4 / CD26 (His Tag)

Catalog No.	CRM688A-His CRM688B-His	**Quantity:**	10 µg 50 µg

Alternate Names: Dipeptidyl peptidase 4, Dipeptidyl peptidase IV, DPP IV, T-cell activation antigen CD26, Thymocyte-activating molecule, THAM, CD26

Description: Dipeptidyl peptidase-4 (DPP4) is a serine exopeptidase belonging to the S9B protein family that cleaves X-proline dipeptides from the N-terminus of proteins. The enzyme is a type II transmembrane glycoprotein, expressed on the surface of many cell types. It is also present in serum and other body fluids in a truncated form (sCD26/DPPIV). The soluble CD26 (sCD26) is a tumor marker for the detection of colorectal cancer (CRC) and advanced adenomas. As both a regulatory enzyme and a signalling factor, DPP4 has been evaluated and described in many studies. DPP4 inhibition results in increased blood concentration of the incretin hormones glucagon-like peptide-1 (GLP-1) and gastric inhibitory polypeptide (GIP). This causes an increase in glucose-dependent stimulation, resulting in a lowering of blood glucose levels. Recent studies have shown that DPP4 inhibitors can induce a significant reduction in glycosylated hemoglobin HbA(1c) levels, alone or in combination with other antidiabetic agents, and are a new class of drugs for treating Type 2 diabetes.

UniProt ID: P28843

Accession Number: NP_034204.1

Protein Construction: A DNA sequence encoding the mouse Dpp4 (Ser29-His760) was expressed with a polyhistidine tag at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The recombinant mouse Dpp4 consists of 743 amino acids with a predicted molecular mass of 85.9 kDa.

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg of the protein as determined by the LAL method

Biological Activity: Testing in progress

Predicted N-terminal: Ser 29

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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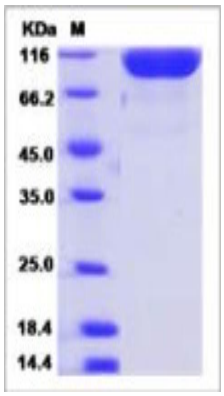
SDS-PAGE



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