

Recombinant Mouse Dpp4, Fc-tagged

Cat. No. Dpp4-120M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the mouse Dpp4 (Ser29-His760) was expressed with the Fc region of human IgG1 at the N-terminus.
Species	Mouse
Source	Human Cells
ProteinLength	29-760 a.a.
Description	Dipeptidyl Peptidase IV (DPPIV)/CD26, is a highly conserved type II integral membrane protein associated with immune regulation, signal transduction and apoptosis, and is constitutively expressed on a wide variety of epithelial, endothelial, and lymphoid cell types. DPPIV is a serine exopeptidase catalyzing the cleavage of N-terminal Xaa-Pro dipeptides from peptides, and its substrates include growth factors, chemokines, neuropeptides, and vasoactive peptides. As a T cell-activating molecule (THAM), DPPIV plays important roles in the T cell-mediated immune responses through the regulation of differentiation and growth of T lymphocytes, and also probably acts as a cofactor for entry of HIV in CD4+ cells. Furthermore, DPPIV appears to work as a suppressor in the progression of certain tumors, and also exerts actions in glucose metabolism via interaction with glucagons. DPPIV also binds the enzyme adenosine deaminase specifically with high affinity. Elevated expression of DPPIV is associated with autoimmune diseases, such as multiple sclerosis and rheumatoid arthritis. The levels of DPPIV soluble form in serum and body fluids have clinical significance in patients with cancer, liver, kidney diseases and depression.

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Predicted N Terminal	Glu
Form	Lyophilized from sterile PBS, pH 7.4.
Molecular Mass	The recombinant mouse Dpp4 consists 992 amino acids and predicts a molecular mass of 112.9 kDa.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Dpp4 dipeptidylpeptidase 4 [Mus musculus (house mouse)]
Official Symbol	Dpp4
Synonyms	Dpp4; Cd26; THAM; Dpp-4; dipeptidylpeptidase 4; dipeptidyl peptidase 4; DPP IV; dipeptidyl peptidase IV; thymocyte-activating molecule; T-cell activation antigen CD26; NP_001153015.1; EC 3.4.14.5; NP_034204.1
Gene ID	13482
mRNA Refseq	NM_010074
Protein Refseq	NP_034204
UniProt ID	P28843

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Chromosome Location	2 C2-D; 2 35.85 cM
Pathway	Incretin Synthesis, Secretion, and Inactivation; Metabolism of proteins; Protein digestion and absorption
Function	aminopeptidase activity; dipeptidyl-peptidase activity; identical protein binding

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