

## Native Human Dipeptidyl Peptidase IV

Cat. No. DPP4-197H    Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Human Placenta
<b>Description</b>	Dipeptidyl Peptidase IV is a lymphocyte cell surface antigen which is increased during T-cell activation and is also expressed in other tissues, such as placenta, kidney, etc. It is an atypical serine protease which has been implicated in a variety of biological functions including diabetes, rheumatoid arthritis, T-cell activation, cell-to-cell adhesion, and recently in HIV infection.
<b>Form</b>	Frozen
<b>Molecular Mass</b>	MW: 350,000
<b>Purity</b>	>= 95% by SDS-PAGE
<b>Unit Definition</b>	One unit is defined as the amount of enzyme which will hydrolyze one umole of H-Gly-Pro-pNA per minute at 25°C, pH 7.8
<b>Usage</b>	For research use or for use in further manufacturing.
<b>Quality Control Test</b>	Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.
<b>Stability</b>	>1 year

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<b>Storage</b>	<=>
<b>Storage Buffer</b>	2 mM Tris-HCl, pH 8.0
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	DPP4 dipeptidyl-peptidase 4 [ Homo sapiens ]
<b>Official Symbol</b>	DPP4
<b>Synonyms</b>	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;
<b>Gene ID</b>	1803
<b>mRNA Refseq</b>	NM_001935
<b>Protein Refseq</b>	NP_001926
<b>MIM</b>	102720
<b>UniProt ID</b>	P27487
<b>Chromosome Location</b>	2q23-qter
<b>Pathway</b>	Incretin Synthesis, Secretion, and Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Protein digestion and absorption, organism-specific

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biosystem; Protein digestion and absorption, conserved biosystem; Regulation of Insulin Secretion, organism-specific biosystem; Synthesis, Secretion, and Inactivation of Glucagon-like Peptide-1 (GLP-1), organism-specific biosystem;

**Function**

aminopeptidase activity; collagen binding; dipeptidyl-peptidase activity; peptidase activity; peptide binding; protease binding; protein binding; protein homodimerization activity; receptor activity; receptor binding; serine-type endopeptidase activity; serine-type peptidase activity;

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