

Native Human Dipeptidyl Peptidase-4

Cat. No. NATE-0962 Lot. No. (See product label)

Introduction	
Description	Native DPPIV is a ubiquitous type II transmembrane glycoprotein and a serine protease of the S9 prolyl-oligopeptidase family. In vivo, it is synthesized with a signal peptide, which functions as the membrane anchoring domain. There is an 88% sequence homology between the human and porcine kidney enzymes. Both exist as homodimers with a subunit molecular weight of ~30 kDa. The high mannose 100 kDa DPPIV precursor is processed in the Golgi to yield a 124 kDa heavily N-and O-linked mature glycoprotein. It is then sorted to the apical membrane through the concerted action of both N-and O-linked glycans and its association with lipid microdomains. The porcine enzyme contains 18.3% carbohydrates, which the glycan composition is 0.9% fucose, 3.4% mannose, 5.1% galactose, 8.2% glucosamine, and 0.7% sialic acid. DPPIV is highly expressed on endothelial cells, epithelial cells, and lymphocytes. It is also present in plasma in its soluble form.
Applications	Validation; Life Science; ELISA; Blotting; Manufacturing
Synonyms	Adenosine Deaminase Complexing Protein 2; CD26; DPP4
Synonyms Product Information	Adenosine Deaminase Complexing Protein 2; CD26; DPP4
Synonyms Product Information Species	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human
Synonyms Product Information Species Source	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human Human Placenta
Synonyms Product Information Species Source Form	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human Human Placenta Liquid
Synonyms Product Information Species Source Form EC Number	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human Human Placenta Liquid EC 3.4.14.5
Synonyms Product Information Species Source Form EC Number Purity	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human Human Placenta Liquid EC 3.4.14.5 > 95% (SDS-PAGE)
Synonyms Product Information Species Source Form EC Number Purity Unit Definition	Adenosine Deaminase Complexing Protein 2; CD26; DPP4 Human Human Placenta Liquid EC 3.4.14.5 > 95% (SDS-PAGE) One unit is defined as the amount of enzyme that hydrolyzes one umole of H-Gly- Pro-pNA per minute at 25°C, pH 7.8

Storage	Store at -20°C
Stability	2 years