

## Active Recombinant Canine DPP4 Protein, His-tagged, Active dimer

**Cat. No.** DPP4-11074C    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

Canine DPPIV, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 27 - Pro 732 (Accession # F1PP08-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ser 27

#### Species

Canine

#### Source

HEK293

#### ProteinLength

27-732 aa

#### Description

Dipeptidyl peptidase-IV (DPPIV) is also known as adenosine deaminase complexing protein 2, DPPIV or CD26 is antigenic enzyme expressed on the surface of most cell types and is associated with immune regulation, signal transduction and apoptosis. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. The substrates of DPPIV are proline (or alanine)-containing peptides and include growth factors, chemokines, neuropeptides, and vasoactive peptides. DPPIV plays a major role in glucose metabolism. It is responsible for the degradation of incretins such as GLP-1. DPPIV plays an important role in tumor biology, and is useful as a marker for various cancers, with its levels either on the cell surface or in the serum increased in some neoplasms and decreased in others. DPPIV also binds the enzyme adenosine deaminase specifically and with high affinity. The significance of this interaction has yet to be established.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 150 mM NaCl, pH8.0 with trehalose as protectant.                                                                                                                                                                                                                   |
| <b>Bio-activity</b>   | The purity of Canine DPP4V, His Tag is more than 90% and the molecular weight of this protein is around 97-118 kDa verified by SEC-MALS.                                                                                                                                                                                     |
| <b>Molecular Mass</b> | The protein has a calculated MW of 83.4 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                               |
| <b>Endotoxin</b>      | Less than 1.0 EU/µg by the LAL method/rFC method.                                                                                                                                                                                                                                                                            |
| <b>Purity</b>         | >95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.                                                                                                                                                                                                                                                              |
| <b>Storage</b>        | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DPP4 dipeptidyl-peptidase 4 [ <i>Canis lupus familiaris</i> ]                                                                  |
| <b>Official Symbol</b> | DPP4                                                                                                                           |
| <b>Synonyms</b>        | DPP4; dipeptidyl-peptidase 4; dipeptidyl peptidase 4; dipeptidyl-peptidase 4 (CD26, adenosine deaminase complexing protein 2); |

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|                |              |
|----------------|--------------|
| Gene ID        | 478767       |
| mRNA Refseq    | XM_038584662 |
| Protein Refseq | XP_038440590 |
| UniProt ID     | F1PP08       |

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