

Dipeptidylpeptidase IV, human recombinant protein
CD26, ADABP, ADCP2, DPPIV, TP103, DPP4, Dipeptidyl peptidase 4, Dipeptidyl
peptidase IV, DPP IV, T-c
Catalog # PBV10367r

Specification

Dipeptidylpeptidase IV, human recombinant protein - Product info

Primary Accession [P27487](#)
Calculated MW **86.4 kDa KDa**

Dipeptidylpeptidase IV, human recombinant protein - Additional Info

Gene ID	1803
Gene Symbol	DPP4
Other Names	
CD26, ADABP, ADCP2, DPPIV, TP103, DPP4, Dipeptidyl peptidase 4, Dipeptidyl peptidase IV, DPP IV, T-cell activation antigen CD26, Adenosine deaminase complexing protein 2, CD26 antigen.	
Gene Source	Human
Source	High-5 cells
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	ADP-SRKTYTLTDYLNKNTYRLKLYSLRWISDHEY LYKQENNILVFNAEYGNSSVFLENSTFDEFGHSI NDYSISPDGQFILLEYNVVKQWRHSYTASYDIY DLNKRQLITEERIPNNTQWVTWSPVGHKLAYV WNNDIYVKIEPNLPSYRITWTGKEDIYNGITDW VYEEEVFSAYSALWWSPNGTFLAYAQFNDTEV PLIEYSFYSDSLQYPKTVRVPYPKAGAVNPTV KFFVVTNDSLSSVTNATSIQITAPASMLIGDHYL CDVTWATQERISLQWLRRIQNYSVMDICDYDE SSGRWNCLVARQHIEMSTTGWVGRFRPSEPHF TLDGNSFYKIISNEEGYRHICYFQIDKKDCTFITK GTWEVIGIEALTSDYLYYISNEYKGMPPGGRNLY KIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAK YYQLRCSGPGPLPLYTLHSSVNDKGLRVLEDNSA LDKMLQNVQMPSKKLDFIILNETKFWYQMILPP HFDKSKKYPLLLDVYAGPCSQKADTVFRLNWA TYLASTENIIVASFDRGSGYQGDKIMHAINRRL GTFEVEDQIEAARQFSKMGFVDNKRIAIWGWS YGGYVTSMVLGSGSGVFKCGIAVAPVSRWEYY DSVYTERYMGLPTPEDNLDHYRNSTVMSRAEN FKQVEYLLIHGTADDNVHFQQSAQISKALVDVG VDFQAMWYTDEDHGIASSTAHHIYTHMSHFI KQCFSLP-SGRLVPRGSHHHHHH

Format
Liquid

Storage

-20°C; 0.5 mg/ml; Sterile filtered solution containing 20 mM Tris-HCl buffer pH 8.0, 100 mM NaCl, 1 mM EDTA and 10 % glycerol.

Dipeptidylpeptidase IV, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Dipeptidylpeptidase IV, human recombinant protein - Images

Dipeptidylpeptidase IV, human recombinant protein - Background

DPP4 is a serine exopeptidase and complex enzyme that is expressed on the surface of most cell types as an intrinsic membrane glycoprotein that cleaves X-proline dipeptides from the N-terminus of polypeptides and plays a role in t-cell activation. DPP4 is associated with intracellular signal transduction, apoptosis and involved in tumor biology. There are at least 63 substrates which can bind specifically to DPP4 enzyme including growth factors, chemokines, neuro peptides. Furthermore, DPP4 plays a major role in glucose metabolism by cleaving incretins such as glucose-dependent insulinotropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1). DPP4 Human Recombinant is a single, glycosylated polypeptide chain containing 746 amino acids (aa 39-766) with a C-terminal His-tag and is purified using conventional chromatography techniques.

Dipeptidylpeptidase IV, human recombinant protein - References

Misumi Y., et al. Biochim. Biophys. Acta 1131:333-336(1992).
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Tanaka T., et al. J. Immunol. 150:2090-2090(1993).
Abbott C.A., et al. Immunogenetics 40:331-338(1994).