

Dipeptidyl-Peptidase 4 Active Protein | DPP4 active protein

Recombinant Human Dipeptidyl-Peptidase 4

CATALOG # AAA10854	HOST Insect cells
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PRODUCT SYNONYMS

Dipeptidyl-Peptidase 4; Recombinant Human Dipeptidyl-Peptidase 4; 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.; DPP4 active protein

PRODUCT SPECIFICATIONS

Host	Insect cells
Purity/Purification	Greater than 95.0% as determined by Analysis by SDS-PAGE.
Form/Format	DPP4 (0.5 mg/ml) is formulated in 20mM Tris-HCl buffer pH-8, 100mM NaCl, 1mM EDTA and 10% glycerol.
Sequence	ADPSRKTYTL TDYLNKNTYRL KLYSLRWISD HEYLYKQENN ILVFNAEYGN SSVFLENSTF DEFGHSINDY SISPDGQFIL LEYNYVKQWR HSYTASYDIY DLNKRQLITE ERIPNNTQWV TWSPVGHKLA YVWNNDIYVK IEPNLPSYRI TWGKEDIY NGITDWVYEE EVFSAYSALW WSPNGTFLAY AQFNDTEVPL IEYSFYSDS LQYPKTVRVP YPKAGAVNPT VKFFVNTDS LSSVTNATSI QITAPASMLI GDHYLCDVTW ATQERISLQW LRRIQNYSVM DICDYDESSG RWNCLVARQH IEMSTTGWVG RFRPSEPHFT LDGNSFYKII SNEEGYRHIC YFQIDKKDCT FITKGTWEVI GIEALTSYDL YYISNEYKGM PGGRLNYKIQ LSDYTKVTCL SCELNPERCQ YYSVSFSKEA KYYQLRCSGP GLPLYTLHSS VNDKGLRVLE DNSALDKMLQ NVQMPSKKLD FIILNETKFW YQMILPPHFD KSKKYPLLLD VYAGPCSQA DTVFRLNWAT YLASTENIIV ASFDGRGSGY QGDKIMHAIN RRLGTFEVED QIEAARQFSK MGFVDNKRIA IWGWSYGGYV TSMVLGSGSG VFKEGIAVAP VSRWEYYSV YTERYMGLPT PEDNLDHYRN STVMSRAENF KQVEYLLIHG TADDNVHFQQ SAQISKALVD VGVDFQAMWY TDEDHGIASS TAHQHIYTHM SHFIKQCFSL PHHHHHH.
Sequence Length	766
Unit Definition	One unit will hydrolyze 1 umole of p-nitroaniline per minute at pH8.0 at 37°C using 1mM of Gly-Pro p-nitroanilide as a substrate.
Physical Appearance	Sterile filtered colorless solution
Biological Activity	>200 Units/mg.
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1 HSA or BSA). Avoid multiple freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for DPP4 active protein	Description: DPPIV Human Recombinant produced in Insect cells is a single, glycosylated polypeptide chain containing 737 amino acids (39-766) and having a molecular mass of 85.4kDa. DPPIV is fused to a 6 His Tag at C-terminus and purified using conventional chromatography techniques. Introduction: DPP4 also called adenosine deaminase complexing protein-2, and T-cell activation antigen CD26 is a serine exopeptidase and complex enzyme that is expressed on the surface of most cell types. DPPIV is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. DPP4 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 GLP-1.
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Product Categories/Family for DPP4 active protein	Enzymes; Peptidase
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NCBI AND UNIPROT INFORMATION

NCBI GI #	18765694
NCBI GeneID	1803
NCBI Accession #	NP_001926.2
NCBI GenBank Nucleotide #	NM_001935.3
UniProt Accession #	P27487; Q53TN1
NCBI Official Full Name	dipeptidyl peptidase 4
NCBI Official Synonym Full Names	dipeptidyl-peptidase 4
NCBI Official Symbol	DPP4
NCBI Official Synonym Symbols	CD26; ADABP; ADCP2; DPPIV; TP103
NCBI Protein Information	dipeptidyl peptidase 4; ADCP-2; DPP IV; T-cell activation antigen CD26; adenosine deaminase complexing protein 2; dipeptidyl peptidase IV; dipeptidylpeptidase 4; dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2)
UniProt Protein Name	Dipeptidyl peptidase 4
UniProt Gene Name	DPP4
UniProt Synonym Gene Names	ADCP2; CD26; ADCP-2; DPP IV
UniProt Entry Name	DPP4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/insect-cells-dpp4-active-protein/dipeptidyl-peptidase-4/10854>