

Active Recombinant Human DPP4, His tagged

Cat. No. DPP4-8313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DPPIV Human Recombinant produced in High-5 cells is a single, glycosylated polypeptide chain containing 746 amino acids (39-766) and having a molecular mass of 86.4 kDa. DPPIV is fused to His Tag at C-terminus and purified using conventional chromatography techniques.
Species	Human
Source	Hi-5 Insect Cells
Protein Length	39-766 a.a.
Description	The protein encoded by this gene is identical to adenosine deaminase complexing protein-2, and to the T-cell activation antigen CD26. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides.
Form	DPP4 is formulated in 20 mM Tris-HCl buffer pH-8, 100mM NaCl, 1mM EDTA and 10% glycerol.
Bio-activity	>20 Units/mg.
AA Sequence	ADP-SRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGNSSVFLEN STFDEFGHSINDYSISP DGQFILLEYNVVKQWRHSYASYDIYDLNKRQLITEERIPN NTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYR ITWTGKEDIYNGITDWVYEEEV FSAYSALWWSPNGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPA GAVN

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PTVKFFVVNTDSLSSVTNATSIQITAPASMLIGDHYLCDVTWATQERISLQWLRRIQN
 YSVM DICDYDESS GRWNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKIISN
 EEGYRHICYFQIDKKDCTFITKGTWEVIGIEA LTSDYLYYISNEYKGMPPGGRNLYKIQL
 SDYTKVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHS SVNDKGLR
 VLEDNSALDKMLQNVQMPSKKLDFIILNETKFWYQMILPPHFDKSKKYPLLLDVYAGP
 CSQKADTVF RLNWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEVEDQI
 EAARQFSKMGFVDNKRIAIWGWSYGGY VTSMVLGSGSGVFKCGIAVAPVSRWEYY
 DSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADD NVHFQQSA
 QISKALVDVGVDQAMWYTDEDHGIASSTAHQHIYTHMSHFQKCFSLP-SGRLVPR
 GSHHHHHH.

Purity

Greater than 95.0% as determined by Analysis by SDS-PAGE. On SDS-PAGE under denatured condition, apparent molecular weight of glycosylated DPP4 will migrate at approximately 90kDa.

Applications

Unit Definition One unit will hydrolyze mmole of p-nitroaniline per minute at pH8.0 at 37°C using 1mM of Gly-Pro p-nitroanilide as substrate.

Notes

For research use only.

Storage

DPP4 although stable 4 °C for weeks, should be stored desiccated below -18 °C. For long term storage it is recommended to add carrier protein (0. 1% HSA or BSA). Please prevent freeze/thaw cycles.

GENE INFORMATION

Gene Name

DPP4 dipeptidyl-peptidase 4 [*Homo sapiens*]

Official Symbol

DPP4

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Synonyms	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; T-cell activation antigen CD26; adenosine deaminase complexing protein 2; dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); CD26; ADABP; ADCP2; TP103;
Gene ID	1803
mRNA Refseq	NM_001935
Protein Refseq	NP_001926
MIM	102720
UniProt ID	P27487
Chromosome Location	2q23-qter
Pathway	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 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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