

## Active Recombinant Human DPP4 protein, His-tagged

**Cat. No.** DPP4-215H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human DPP4(39 a.a. - 766 a.a.) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 39-766 a.a.                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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.                                   |
| <b>Form</b>             | In 20 mM Tris-HCl, 100 mM NaCl, 1 mM EDTA, pH 8.0 (10% glycerol)                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | Approximately > 50 Unit/mg.                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 86.4 kDa                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>      | ADPRKTYTLTDYLNKNTYRLKLYSLRWISDHEYLYKQENNILVFNAEYGNSSVFLENST<br>FDEFGHSINDYSISPDG QFILLEYNVVKQWRHSYTASYDIYDLNKRQLITEERIPNNT<br>QWVTWSPVGHKLAYVWNNDIYVKIEPNLPSYRIT WTGKEDIYNGITDWVYEEEFVS<br>AYSALWWSPNGTFLAYAQFNDTEVPLIEYSFYSDSLQYPKTVRVPYPKAGA VNPT<br>VKFFVNTDSLSSVTNATSIQITAPASMLIGDHLYLCDVTWATQERISLQWLRRIQNYS |

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VMDICDYDESSGR WNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKIISNEE  
 GYRHICYFQIDKKDCTFITKGTWEVIGIEALT SDYLYYISNEYKGMPGGRNLYKIQLS  
 DYTQVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYTLHSSV NDKGLRV  
 LEDNSALDKMLQNVQMPSKKLDFILNETKFWYQMILPPHFDKSKKYPLLLDVYAGP  
 CSQKADTVFRL NWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEVEDQI  
 EAARQFSKMGFVDNKRIAIWGWWSYGGYVT SMVLGSGSGVFKCGIAVAPVSRWEYY  
 DSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNV HFQQSA  
 QISKALVDVGVDQAMWYTDEDHGIASSTAHQHIYTHMSHFQKCFSLP-SGRLVPR  
 GSHHHHHH

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>       | < 1.0 EU per 1 microgram of protein (determined by LAL method)                                                                                        |
| <b>Purity</b>          | > 95% by SDS-PAGE                                                                                                                                     |
| <b>Unit Definition</b> | One unit will hydrolyze 1 umole of p-nitroaniline per minute at pH 8.0 at 37 centigrade using 1mM of Gly-Pro p-nitroanilide as a substrate.           |
| <b>Applications</b>    | Functional Study; SDS-PAGE                                                                                                                            |
| <b>Storage</b>         | Store at 4 centigrade for 1-2 weeks. For long term storage store at -20 centigrade or -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| <b>Concentration</b>   | 0.5 mg/mL                                                                                                                                             |

## GENE INFORMATION

|                        |                                                                                 |
|------------------------|---------------------------------------------------------------------------------|
| <b>Gene Name</b>       | DPP4 dipeptidyl-peptidase 4 [ Homo sapiens ]                                    |
| <b>Official Symbol</b> | DPP4                                                                            |
| <b>Synonyms</b>        | DPP4; dipeptidyl-peptidase 4; ADCP2, adenosine deaminase complexing protein 2 , |

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | 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;                                                                                                                       |
| <b>Gene ID</b>             | <a href="#">1803</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_001935</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>      | <a href="#">NP_001926</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MIM</b>                 | <a href="#">102720</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | <a href="#">P27487</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 2q23-qter                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Pathway</b>             | 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; |
| <b>Function</b>            | 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;                                                                                                                                                                                     |