

Active Recombinant Human DPP4 protein, His-tagged

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

SPECIFICATION

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

VMDICDYDESSGR WNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSFYKIISNEE
 GYRHICYFQIDKKDCTFITKGTWEVIGIEALT SDYLYYISNEYKGMPPGGRNLYKIQLS
 DYTQVTCLSCELNPERCQYYSVSFSKEAKYYQLRCSGPGPLPLYTLHSSV NDKGLRV
 LEDNSALDKMLQNVQMPSKKLDFIILNETKFWYQMILPPHFDKSKKYPLLLDVYAGP
 CSQKADTVFRL NWATYLASTENIIVASFDGRGSGYQGDKIMHAINRRLGTFEVEDQI
 EAARQFSKMGFVDNKRIAIWGWSYGGYVT SMVLGSGSGVFKCGIAPVSRWEYY
 DSVYTERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIHGTADDNV HFQQSA
 QISKALVDVGVDFQAMWYTDEDHGIASSTAHQHIYTHMSHFQKCFSLP-SGRLVPR
 GSHHHHHH

Endotoxin < 1.0 EU per 1 microgram of protein (determined by LAL method)

Purity > 95% by SDS-PAGE

Unit Definition One unit will hydrolyze 1 umole of p-nitroaniline per minute at pH 8.0 at 37 centigrade using 1mM of Gly-Pro p-nitroanilde as a substrate.

Applications Functional Study; SDS-PAGE

Storage 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.

Concentration 0.5 mg/mL

GENE INFORMATION

Gene Name DPP4 dipeptidyl-peptidase 4 [Homo sapiens]

Official Symbol DPP4

Synonyms DPP4; dipeptidyl-peptidase 4; ADCP2, adenosine deaminase complexing protein 2 ,

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

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;

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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