

Active Recombinant Human DPP4, His-tagged

Cat. No. DPP4-1081H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DPP4 (NP_001926, 39 a.a. - 766 a.a.) partial recombinant protein with His tag expressed in Escherichia coli.
Species	Human
Source	Human
ProteinLength	39-766 a.a.
Description	DPP4, dipeptidyl peptidase-4 is a complex enzyme expressed on the surface of most cell types and is a serine exopeptidase that cleaves x-proline dipeptides from the N-terminus of polypeptides. DPP4 protein is associated with intracellular signal transduction, apoptosis and plays an important role in tumor biology.
Sequence	ADP-R KTYTLTDYLK NTYRLKLYSL RWISDHEYLY KQENNILVFN AEYGNSSVFL ENSTFDEFGH SINDYSISPD GQFILLEINY VKQWRHSYTA SYDIYDLNKR QLITEERIPN NTQWVTWSPV GHKLAYVWNN DIYVKIEPNL PSYRITWTGK EDIIYNGITD WYEEEEVFSA YSALWWSPNG TFLAYAQFND TEVPLIEYSF YSDESLQYPK TVRVPYPKAG AVNPTVKFFV VNTDSLSSVT NATSIQITAP ASMLIGDHYL CDVTWATQER ISLQWLRRIQ NYSVMDICDY DESSGRWNCL VARQHIEMST TGWVGRFRPS EPHFTLDGNS FYKIISNEEG YRHICYFQID KKDCTFITKG TWEVIGIEAL TSDYLYYISN EYKGMPGGRN LYKIQLSDYT KVTCLSCELN PERCQYYSVS FSKEAKYYQL RCSGPGLPLY TLHSSVNDKG LRVLEDNSAL DKMLQNVQMP SKKLDFIILN ETKFWYQMIL PPHFDKSKKY

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PLLLDVYAGP CSQKADTVFR LNWATYLAST ENIIVASFDG RGSGYQGDKI
 MHAINRRLGT FEVEDQIEAA RQFSKMGFVD NKRIAIWGWS YGGYVTSMVL
 GSGSGVFKCG IAVAPVSRWE YYDSVYTERY MGLPTPEDNL DHYRNSTVMS
 RAENFKQVEY LLIHGTADDN VHFQQSAQIS KALVDVGVD FQAMWYTDEDH
 GIASSTAHQH IYTHMSHFQK QCFSLP-SGRLVPRGSHHHHHH

Theoretical MW (kDa)	86.40000000000001
Form	Liquid
Preparation Method	E. coli expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Activity	Approximately > 50 Unit/mg. One unit will hydrolyze 1 umole of p-nitroaniline per minute at pH 8.0 at 37°C using 1mM of Gly-Pro p-nitroanilide as a substrate.
Application	SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl, 100 mM NaCl, 1 mM EDTA, pH 8.0 (10% glycerol)
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	P27487

GENE INFORMATION

Gene Name DPP4 dipeptidyl-peptidase 4 [Homo sapiens]

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Official Symbol	DPP4
Synonyms	ADABP; ADCP2; CD26; DPPIV; EC 3.4.14.5; TP103; Adenosine deaminase complexing protein 2; CD26 antigen; DPP IV; Dipeptidyl peptidase IV; T-cell activation antigen CD26; dipeptidyl-peptidase 4; dipeptidylpeptidase 4; dipeptidylpeptidase IV; dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2); DPP4
Gene ID	1803
mRNA Refseq	NM_001935
Protein Refseq	NP_001926
MIM	102720
Chromosome Location	2q24.3
Function	aminopeptidase activity; dipeptidyl-peptidase activity; protein binding; homodimerization activity; serine-type endopeptidase activity

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**Ribbondiagram of
human DPP-4.**

