Recombinant human CD26/DPP4 protein

Catalog Number: DPP0901

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
39-766aa

UniProt No.
P27487

NCBI Accession No.
NP_001926.2

Alternative Names
Dipeptidyl peptidase 4, dipeptidyl peptidase 4 isoform 1, ADABP, ADCP2, CD26, DPPIV, TP103, Adenosine deaminase complexing protein 2, Dipeptidyl peptidase IV, DPP4, T-cell activation antigen CD26

PRODUCT SPECIFICATION

Molecular Weight
85.4 kDa (737aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 1mM EDTA, 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity
Specific activity is > 200unit/mg, One unit produces 1.0 umole of p-Nitroaniline from Gly-Pro- p-Nitroaniline per minute at pH 8.0 at 37C.

Tag
His-Tag

Application
SDS-PAGE, Enzyme Activity

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

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. 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 glucagon-like peptide-1 (GLP-1). Recombinant human DPP4 protein was expressed with c-terminal His-tag in high-5 cells using baculovirus expression system and purified by using conventional chromatography techniques.

Amino acid Sequence

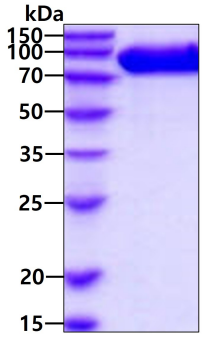
<ADP>SRKTYTL TDYLKNTYRL KLYSLRWISD HEYLYKQENN ILVFNAEYGN SSVFLENSTF DEFGHSINDY SISPDGQFIL LEYNYVKQWR HSYTASYDIY DLNKRQLITE ERIPNNTQWV TWSPVGHKLA YVWNNDIYVK IEPNLPSYRI TWTGKEDIIY NGITDWVYEE EVFSAYSALW WSPNGTFLAY AQFNDTEVPL IEYSFYSDES LQYPKTVRVP YPKAGAVNPT VKFFVVNTDS LSSVTNATSI QITAPASMLI GDHYLCDVTW ATQERISLQW LRRIQNYSVM DICDYDESSG RWNCLVARQH IEMSTTGWVG RFRPSEPHFT LDGNSFYKII SNEEGYRHIC YFQIDKKDCT FITKGTWEVI GIEALTSDYL YYISNEYKGM PGGRNLYKIQ LSDYTKVTCL SCELNPERCQ YYSVSFSKEA KYYQLRCSGP GLPLYTLHSS VNDKGLRVLE DNSALDKMLQ NVQMPSKKLD FIILNETKFW YQMILPPHFD KSKKYPLLLD VYAGPCSQKA DTVFRLNWAT YLASTENIIV ASFDGRGSGY QGDKIMHAIN RRLGTFEVED QIEAARQFSK MGFVDNKRIA IWGWSYGGYV TSMVLGSGSG VFKCGIAVAP VSRWEYYDSV YTERYMGLPT PEDNLDHYRN STVMSRAENF KQVEYLLIHG TADDNVHFQQ SAQISKALVD VGVDFQAMWY TDEDHGIASS TAHQHIYTHM SHFIKQCFSL P<HHHHHH>

General References

Pratley RE and Salsali A. (2007) Curr Med Res Opin. 23(4):919-31.
Rosenstock J. and Zinman B. (2007) Curr Opin Endocrino Diabetes Obes.60(11):1454-70.
Barnett A. (2006). J.Clin. Pract. 60(11):1454-70.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.