antibodies.com

Datasheet for ABIN3092168 DPP4 Protein (AA 29-766) (His tag)

Image



Overview

Quantity:	1 mg
Target:	DPP4
Protein Characteristics:	AA 29-766
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	NKGTDDATAD SRKTYTLTDY LKNTYRLKLY SLRWISDHEY LYKQENNILV FNAEYGNSSV
	FLENSTFDEF GHSINDYSIS PDGQFILLEY NYVKQWRHSY TASYDIYDLN KRQLITEERI
	PNNTQWVTWS PVGHKLAYVW NNDIYVKIEP NLPSYRITWT GKEDIIYNGI TDWVYEEEVF
	SAYSALWWSP NGTFLAYAQF NDTEVPLIEY SFYSDESLQY PKTVRVPYPK AGAVNPTVKF
	FVVNTDSLSS VTNATSIQIT APASMLIGDH YLCDVTWATQ ERISLQWLRR IQNYSVMDIC
	DYDESSGRWN CLVARQHIEM STTGWVGRFR PSEPHFTLDG NSFYKIISNE EGYRHICYFQ
	IDKKDCTFIT KGTWEVIGIE ALTSDYLYYI SNEYKGMPGG RNLYKIQLSD YTKVTCLSCE
	LNPERCQYYS VSFSKEAKYY QLRCSGPGLP LYTLHSSVND KGLRVLEDNS ALDKMLQNVQ
	MPSKKLDFII LNETKFWYQM ILPPHFDKSK KYPLLLDVYA GPCSQKADTV FRLNWATYLA
	STENIIVASF DGRGSGYQGD KIMHAINRRL GTFEVEDQIE AARQFSKMGF VDNKRIAIWG
	WSYGGYVTSM VLGSGSGVFK CGIAVAPVSR WEYYDSVYTE RYMGLPTPED NLDHYRNSTV
	MSRAENFKQV EYLLIHGTAD DNVHFQQSAQ ISKALVDVGV DFQAMWYTDE DHGIASSTAH

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3092168 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

	QHIYTHMSHF IKQCFSLP
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Human DPP4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis).
	This protein is a made to order protein and will be made for the first time for your order. Our
	experts in the lab will ensure that you receive a correctly folded protein.
	The big advantage of ordering our made-to-order proteins in comparison to ordering custom
	made proteins from other companies is that there is no financial obligation in case the protein
	cannot be expressed or purified.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3092168 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Product Details

Grade:

Crystallography grade

Target Details

Target:	DPP4
Alternative Name:	DPP4 (DPP4 Products)
Background:	Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell
	receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by
	binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell
	proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its
	interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAF
	is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and
	invasion of endothelial cells into the ECM. May be involved in the promotion of lymphatic
	endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell
	proliferation, a process inhibited by GPC3. Acts also as a serine exopeptidase with a dipeptidyl
	peptidase activity that regulates various physiological processes by cleaving peptides in the
	circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide
	hormones. Removes N-terminal dipeptides sequentially from polypeptides having
	unsubstituted N-termini provided that the penultimate residue is proline.
	{ECO:0000269 PubMed:10570924, ECO:0000269 PubMed:10593948,
	EC0:0000269 PubMed:10900005, EC0:0000269 PubMed:10951221,
	ECO:0000269 PubMed:11772392, ECO:0000269 PubMed:14691230,
	ECO:0000269 PubMed:16651416, ECO:0000269 PubMed:17287217,
	ECO:0000269 PubMed:17549790, ECO:0000269 PubMed:18708048}.
Molecular Weight:	86.3 kDa Including tag.
UniProt:	P27487
Pathways:	Peptide Hormone Metabolism, Regulation of Leukocyte Mediated Immunity
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be

insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3092168 | 09/11/2023 | Copyright antibodies-online. All rights reserved.

Application Details	
	increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

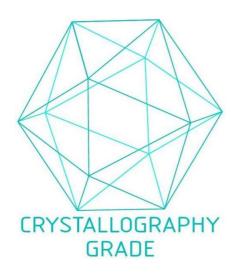


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process