

Datasheet for ABIN3133607 **DPP4 Protein (AA 1-760) (Strep Tag)**



Overview

Quantity:	250 μg
Target:	DPP4
Protein Characteristics:	AA 1-760
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

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Product Details		
Brand:	AliCE®	
Sequence:	MKTPWKVLLG LLGVAALVTI ITVPIVLLSK DEAAADSRRT YSLADYLKST FRVKSYSLWW	
	VSDFEYLYKQ ENNILLLNAE HGNSSIFLEN STFESFGYHS VSPDRLFVLL EYNYVKQWRH	
	SYTASYNIYD VNKRQLITEE KIPNNTQWIT WSPEGHKLAY VWKNDIYVKV EPHLPSHRIT	
	STGEENVIYN GITDWVYEEE VFGAYSALWW SPNNTFLAYA QFNDTGVPLI EYSFYSDESL	
	QYPKTVWIPY PKAGAVNPTV KFFIVNIDSL SSSSSAAPIQ IPAPASVARG DHYLCDVVWA	
	TEERISLQWL RRIQNYSVMA ICDYDKINLT WNCPSEQQHV EMSTTGWVGR FRPAEPHFTS	
	DGSSFYKIIS DKDGYKHICH FPKDKKDCTF ITKGAWEVIS IEALTSDYLY YISNQYKEMP	
	GGRNLYKIQL TDHTNVKCLS CDLNPERCQY YAVSFSKEAK YYQLGCWGPG LPLYTLHRST	
	DHKELRVLED NSALDRMLQD VQMPSKKLDF IVLNETRFWY QMILPPHFDK SKKYPLLLDV	
	YAGPCSQKAD ASFRLNWATY LASTENIIVA SFDGRGSGYQ GDKIMHAINR RLGTLEVEDQ	
	IEAARQFVKM GFVDSKRVAI WGWSYGGYVT SMVLGSGSGV FKCGIAVAPV SRWEYYDSVY	

TERYMGLPIP EDNLDHYRNS TVMSRAEHFK QVEYLLIHGT ADDNVHFQQS AQISKALVDA GVDFQAMWYT DEDHGIASST AHQHIYSHMS HFLQQCFSLH

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	DPP4
Alternative Name:	Dpp4 (DPP4 Products)
Background:	Dipeptidyl peptidase 4 (EC 3.4.14.5) (Dipeptidyl peptidase IV) (DPP IV) (T-cell activation antigen CD26) (Thymocyte-activating molecule) (THAM) (CD antigen CD26) [Cleaved into: Dipeptidyl peptidase 4 membrane form (Dipeptidyl peptidase IV membrane form), Dipeptidyl peptidase 4 soluble form (Dipeptidyl peptidase IV soluble form)],FUNCTION: 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 FAP 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
Molecular Weight:	that the penultimate residue is proline. {ECO:0000250 UniProtKB:P27487}. 87.4 kDa
UniProt:	P28843
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 guarantee though.
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Comment:

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Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months