

# Datasheet for ABIN3114533 FAP Protein (AA 1-760) (Strep Tag)



Overview

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

## Product Details

Brand:	AliCE®
Sequence:	MKTWVKIVFG VATSAVLALL VMCIVLRPSR VHNSEENTMR ALTLKDILNG TFSYKTFFPN
	WISGQEYLHQ SADNNIVLYN IETGQSYTIL SNRTMKSVNA SNYGLSPDRQ FVYLESDYSK
	LWRYSYTATY YIYDLSNGEF VRGNELPRPI QYLCWSPVGS KLAYVYQNNI YLKQRPGDPP
	FQITFNGREN KIFNGIPDWV YEEEMLATKY ALWWSPNGKF LAYAEFNDTD IPVIAYSYYG
	DEQYPRTINI PYPKAGAKNP VVRIFIIDTT YPAYVGPQEV PVPAMIASSD YYFSWLTWVT
	DERVCLQWLK RVQNVSVLSI CDFREDWQTW DCPKTQEHIE ESRTGWAGGF FVSTPVFSYD
	AISYYKIFSD KDGYKHIHYI KDTVENAIQI TSGKWEAINI FRVTQDSLFY SSNEFEEYPG RRNIYRISIG
	SYPPSKKCVT CHLRKERCQY YTASFSDYAK YYALVCYGPG IPISTLHDGR TDQEIKILEE
	NKELENALKN IQLPKEEIKK LEVDEITLWY KMILPPQFDR SKKYPLLIQV YGGPCSQSVR
	SVFAVNWISY LASKEGMVIA LVDGRGTAFQ GDKLLYAVYR KLGVYEVEDQ ITAVRKFIEM
	GFIDEKRIAI WGWSYGGYVS SLALASGTGL FKCGIAVAPV SSWEYYASVY TERFMGLPTK

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## DDNLEHYKNS TVMARAEYFR NVDYLLIHGT ADDNVHFQNS AQIAKALVNA QVDFQAMWYS DQNHGLSGLS TNHLYTHMTH FLKQCFSLSD

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®).

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## Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

## Target Details

Target:	FAP
Alternative Name:	FAP (FAP Products)
Background:	Prolyl endopeptidase FAP (EC 3.4.21.26) (170 kDa melanoma membrane-bound gelatinase)
	(Dipeptidyl peptidase FAP) (EC 3.4.14.5) (Fibroblast activation protein alpha) (FAPalpha)
	(Gelatine degradation protease FAP) (EC 3.4.21) (Integral membrane serine protease) (Post-
	proline cleaving enzyme) (Serine integral membrane protease) (SIMP) (Surface-expressed
	protease) (Seprase) [Cleaved into: Antiplasmin-cleaving enzyme FAP, soluble form (APCE) (EC
	3.4.14.5) (EC 3.4.21) (EC 3.4.21.26)],FUNCTION: Cell surface glycoprotein serine protease that
	participates in extracellular matrix degradation and involved in many cellular processes
	including tissue remodeling, fibrosis, wound healing, inflammation and tumor growth. Both
	plasma membrane and soluble forms exhibit post-proline cleaving endopeptidase activity, with
	a marked preference for Ala/Ser-Gly-Pro-Ser/Asn/Ala consensus sequences, on substrate suc
	as alpha-2-antiplasmin SERPINF2 and SPRY2 (PubMed:14751930, PubMed:16223769,
	PubMed:16480718, PubMed:16410248, PubMed:17381073, PubMed:18095711,
	PubMed:21288888, PubMed:24371721). Degrade also gelatin, heat-denatured type I collagen,
	but not native collagen type I and IV, vitronectin, tenascin, laminin, fibronectin, fibrin or casein
	(PubMed:9065413, PubMed:2172980, PubMed:7923219, PubMed:10347120,
	PubMed:10455171, PubMed:12376466, PubMed:16223769, PubMed:16651416,
	PubMed:18095711). Also has dipeptidyl peptidase activity, exhibiting the ability to hydrolyze th
	prolyl bond two residues from the N-terminus of synthetic dipeptide substrates provided that
	the penultimate residue is proline, with a preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and
	Pro-Pro (PubMed:10347120, PubMed:10593948, PubMed:16175601, PubMed:16223769,
	PubMed:16651416, PubMed:16410248, PubMed:17381073, PubMed:21314817,
	PubMed:24371721, PubMed:24717288). Natural neuropeptide hormones for dipeptidyl
	peptidase are the neuropeptide Y (NPY), peptide YY (PYY), substance P (TAC1) and brain
	natriuretic peptide 32 (NPPB) (PubMed:21314817). The plasma membrane form, in associatic
	with either DPP4, PLAUR or integrins, is involved in the pericellular proteolysis of the
	extracellular matrix (ECM), and hence promotes cell adhesion, migration and invasion through
	the ECM. Plays a role in tissue remodeling during development and wound healing. Participate
	in the cell invasiveness towards the ECM in malignant melanoma cancers. Enhances tumor

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	growth progression by increasing angiogenesis, collagen fiber degradation and apoptosis and
	by reducing antitumor response of the immune system. Promotes glioma cell invasion through
	the brain parenchyma by degrading the proteoglycan brevican. Acts as a tumor suppressor in
	melanocytic cells through regulation of cell proliferation and survival in a serine protease
	activity-independent manner. {ECO:0000250 UniProtKB:P97321,
	ECO:0000269 PubMed:10347120, ECO:0000269 PubMed:10455171,
	ECO:0000269 PubMed:10593948, ECO:0000269 PubMed:12376466,
	ECO:0000269 PubMed:14751930, ECO:0000269 PubMed:16175601,
	ECO:0000269 PubMed:16223769, ECO:0000269 PubMed:16410248,
	ECO:0000269 PubMed:16480718, ECO:0000269 PubMed:16651416,
	ECO:0000269 PubMed:17105646, ECO:0000269 PubMed:17381073,
	EC0:0000269 PubMed:18095711, EC0:0000269 PubMed:20707604,
	ECO:0000269 PubMed:21288888, ECO:0000269 PubMed:21314817,
	EC0:0000269 PubMed:2172980, EC0:0000269 PubMed:24371721,
	EC0:0000269 PubMed:24717288, EC0:0000269 PubMed:7923219,
	ECO:0000269 PubMed:9065413}.
Molecular Weight:	87.7 kDa
UniProt:	Q12884
Pathways:	Tube Formation
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.
Comment:	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 post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
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# Application Details

## 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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months