antibodies.com

# Datasheet for ABIN3119498 Corin Protein (AA 1-1042) (Strep Tag)

Image



### Overview

Quantity:	1 mg
Target:	Corin (CORIN)
Protein Characteristics:	AA 1-1042
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Corin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Sequence:	MKQSPALAPE ERCRRAGSPK PVLRADDNNM GNGCSQKLAT ANLLRFLLLV LIPCICALVL
	LLVILLSYVG TLQKVYFKSN GSEPLVTDGE IQGSDVILTN TIYNQSTVVS TAHPDQHVPA
	WTTDASLPGD QSHRNTSACM NITHSQCQML PYHATLTPLL SVVRNMEMEK FLKFFTYLHR
	LSCYQHIMLF GCTLAFPECI IDGDDSHGLL PCRSFCEAAK EGCESVLGMV NYSWPDFLRC
	SQFRNQTESS NVSRICFSPQ QENGKQLLCG RGENFLCASG ICIPGKLQCN GYNDCDDWSD
	EAHCNCSENL FHCHTGKCLN YSLVCDGYDD CGDLSDEQNC DCNPTTEHRC GDGRCIAMEW
	VCDGDHDCVD KSDEVNCSCH SQGLVECRNG QCIPSTFQCD GDEDCKDGSD EENCSVIQTS
	CQEGDQRCLY NPCLDSCGGS SLCDPNNSLN NCSQCEPITL ELCMNLPYNS TSYPNYFGHR
	TQKEASISWE SSLFPALVQT NCYKYLMFFS CTILVPKCDV NTGEHIPPCR ALCEHSKERC
	ESVLGIVGLQ WPEDTDCSQF PEENSDNQTC LMPDEYVEEC SPSHFKCRSG QCVLASRRCD
	GQADCDDDSD EENCGCKERD LWECPSNKQC LKHTVICDGF PDCPDYMDEK NCSFCQDDEL
	ECANHACVSR DLWCDGEADC SDSSDEWDCV TLSINVNSSS FLMVHRAATE HHVCADGWQE

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 1/5 | Product datasheet for ABIN3119498 | 04/16/2024 | Copyright antibodies-online. All rights reserved. ILSQLACKQM GLGEPSVTKL IQEQEKEPRW LTLHSNWESL NGTTLHELLV NGQSCESRSK ISLLCTKQDC GRRPAARMNK RILGGRTSRP GRWPWQCSLQ SEPSGHICGC VLIAKKWVLT VAHCFEGREN AAVWKVVLGI NNLDHPSVFM QTRFVKTIIL HPRYSRAVVD YDISIVELSE DISETGYVRP VCLPNPEQWL EPDTYCYITG WGHMGNKMPF KLQEGEVRII SLEHCQSYFD MKTITTRMIC AGYESGTVDS CMGDSGGPLV CEKPGGRWTL FGLTSWGSVC FSKVLGPGVY SNVSYFVEWI KRQIYIQTFL LN

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

#### 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.

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 2/5 | Product datasheet for ABIN3119498 | 04/16/2024 | Copyright antibodies-online. All rights reserved.

	<ul> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li> <li>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.</li> </ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

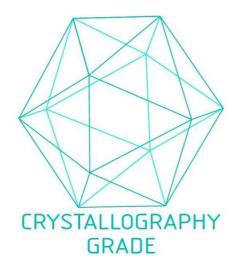
## Target Details

Target:	Corin (CORIN)
Alternative Name:	CORIN (CORIN Products)
Background:	Atrial natriuretic peptide-converting enzyme (EC 3.4.21) (Corin) (Heart-specific serine
	proteinase ATC2) (Pro-ANP-converting enzyme) (Transmembrane protease serine 10) [Cleave
	into: Atrial natriuretic peptide-converting enzyme, N-terminal propeptide, Atrial natriuretic
	peptide-converting enzyme, activated protease fragment, Atrial natriuretic peptide-converting
	enzyme, 180 kDa soluble fragment, Atrial natriuretic peptide-converting enzyme, 160 kDa
	soluble fragment, Atrial natriuretic peptide-converting enzyme, 100 kDa soluble
	fragment],FUNCTION: Serine-type endopeptidase involved in atrial natriuretic peptide (NPPA)
	and brain natriuretic peptide (NPPB) processing (PubMed:10880574, PubMed:21288900,
	PubMed:20489134, PubMed:21763278). Converts through proteolytic cleavage the non-
	functional propeptides NPPA and NPPB into their active hormones, ANP and BNP(1-32)
	respectively, thereby regulating blood pressure in the heart and promoting natriuresis, diuresis
	and vasodilation (PubMed:10880574, PubMed:21288900, PubMed:20489134,
	PubMed:21763278). Proteolytic cleavage of pro-NPPA also plays a role in female pregnancy by
	promoting trophoblast invasion and spiral artery remodeling in uterus (PubMed:22437503).
	Also acts as a regulator of sodium reabsorption in kidney (By similarity).
	{EC0:0000250 UniProtKB:Q9Z319, EC0:0000269 PubMed:10880574,

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 3/5 | Product datasheet for ABIN3119498 | 04/16/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
	ECO:0000269 PubMed:20489134, ECO:0000269 PubMed:21288900, ECO:0000269 PubMed:21763278, ECO:0000269 PubMed:22437503}., FUNCTION: [Isoform 2]: Has weaker endopeptidase activity compared to isoform 1.
Molecular Weight:	116.5 kDa
UniProt:	Q9Y5Q5
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones
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:	<ul> <li>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.</li> <li>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!</li> </ul>
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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 4/5 | Product datasheet for ABIN3119498 | 04/16/2024 | Copyright antibodies-online. All rights reserved. Images



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

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 5/5 | Product datasheet for ABIN3119498 | 04/16/2024 | Copyright antibodies-online. All rights reserved.