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Datasheet for ABIN3137652
Corin Protein (AA 1-1113) (Strep Tag)

Overview

Quantity:	1 mg
Target:	Corin (CORIN)
Protein Characteristics:	AA 1-1113
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
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: MGRVSFSVRV SSVRRARCSC PGRCYLSCRV PPTTALRALN GLGCAGVPGE TAGGAVGPGP
LGTRGFLSGS KFAQPGSWKD CFGAPPAPDV LRADRSVGE G CPQKLV TANL LRFLLLV LIP
CICALIVLLA ILLSFVGT LK RYVFKSNDSE PLVTDGEARV PGVIPVNTVY YENTGAPSLP
PSQSTPAWTP RAPSPEDQSH RNTSTCMNIT HSQCQILPYH STLAPLLPIV KNMDMEKFLK
FFTYLHRLSC YQHILLFGCS LAFPECVVDG DDRHG LLLPCR SFCEAAKEGC ESVLGMVNSS
WPDSLRC SQF RDHTETNSSV RKSCFSLQQE HGKQSLCGGG ESFLCTSGLC VPKKLQCN GY
NDCDDWSDEA HCNC SKDLFH CGTGKCLHYS LLC DGYDDCG DLSDEQN CDC NLTKEHRCGD
GRCIAAEWVC DGDHDCVDKS DEVNCSCHSQ GLVECRSGQC IPSTFQCDGD EDCKDGSDEE
NCSDSQT PCP EGEQGCLGSS CVESCAGSSL CDS DSSLSNC SQCEPITL EL CMNLPYNHHT
YPNYLGHRTQ KEASISWESS LFPALVQTNC YKYL MFFACT ILV PKCDVNT GQRIPPCRL L
CEHSKERCES VLGIVGLQWP EDTDCNQFPE ESSDNQTCLL PNEDVEECSP SHFKCRSGRC
VLGSRRC DGQ ADCDDSDDEE NCGCKERALW ECPFNKQCLK HTLICDGF PD CPDSMDEKNC

SFCQDNELEC ANHECVPRDL WCDGWVDCSD SSDEWGCVTL SKNGNSSLL TVHKSACEHH
VCADGWRETL SQLACKQMGL GEPSVTKLIP GQEGQWLRL YPNWENLNGS TLQELLVYRH
SCPSRSEISL LCSKQDCGRR PAARMNKRIL GGRTSRPGRW PWQCSLQSEP SGHICGCVLI
AKKWVLTVAH CFEGREDADV WKVVFGINNL DHPSGFMQTR FVKTILLHPR YSRAVDYDI
SVVELSDDIN ETSYVRPVCL PSPEEYLEPD TYCYITGWGH MGNKMPFKLQ EGEVRIIPLE
QCQSYFDMKT ITNRMICAGY ESGTVDSCMG DSGGPLVCER PGGQWTLFGL TSWGSVCFSK
VLGPGVYSNV SYFVGWIERQ IYIQTFLQKK SQG

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 post-translational 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:

Product Details

- 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.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification: Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

1. 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.
2. 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: ≥ 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)

Target Details

Target: Corin (CORIN)

Alternative Name: Corin ([CORIN Products](#))

Background: Atrial natriuretic peptide-converting enzyme (EC 3.4.21.-) (Corin) (Low density lipoprotein receptor-related protein 4) (Pro-ANP-converting enzyme) [Cleaved 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],FUNCTION: Serine-type endopeptidase involved in atrial natriuretic peptide (NPPA) processing (PubMed:11884416, PubMed:15637153). Converts through proteolytic cleavage the non-functional propeptide NPPA into the active hormone, thereby regulating blood pressure in heart and promoting natriuresis, diuresis and vasodilation (PubMed:11884416, PubMed:15637153, PubMed:22418978). 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 (PubMed:20613715, PubMed:22418978). May also process pro-NPPB the B-type natriuretic peptide (By similarity). {ECO:0000250|UniProtKB:Q9Y5Q5, ECO:0000269|PubMed:11884416, ECO:0000269|PubMed:15637153, ECO:0000269|PubMed:20613715, ECO:0000269|PubMed:22418978, ECO:0000269|PubMed:22437503}.

Molecular Weight: 123.0 kDa

Target Details

UniProt: [Q9Z319](#)

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: 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 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!

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)