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Datasheet for ABIN3137257 IDE Protein (AA 1-1019) (Strep Tag)



Overview

Quantity:	1 mg
Target:	IDE
Protein Characteristics:	AA 1-1019
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDE protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MRNGLVWLLH PALPGTLRSI LGARPPPAKR LCGFPKQTYS TMSNPAIQRI EDQIVKSPED
	KREYRGLELA NGIKVLLISD PTTDKSSAAL DVHIGSLSDP PNIPGLSHFC EHMLFLGTKK
	YPKENEYSQF LSEHAGSSNA FTSGEHTNYY FDVSHEHLEG ALDRFAQFFL CPLLDASCKD
	REVNAVDSEH EKNVMNDAWR LFQLEKATGN PKHPFSKFGT GNKYTLETRP NQEGIDVREE
	LLKFHSTYYS SNLMAICVLG RESLDDLTNL VVKLFSEVEN KNVPLPEFPE HPFQEEHLRQ
	LYKIVPIKDI RNLYVTFPIP DLQQYYKSNP GYYLGHLIGH EGPGSLLSEL KSKGWVNTLV
	GGQKEGARGF MFFIINVDLT EEGLLHVEDI ILHMFQYIQK LRAEGPQEWV FQECKDLNAV
	AFRFKDKERP RGYTSKIAGK LHYYPLNGVL TAEYLLEEFR PDLIDMVLDK LRPENVRVAI
	VSKSFEGKTD RTEQWYGTQY KQEAIPEDVI QKWQNADLNG KFKLPTKNEF IPTNFEILSL
	EKDATPYPAL IKDTAMSKLW FKQDDKFFLP KACLNFEFFS PFAYVDPLHC NMAYLYLELL
	KDSLNEYAYA AELAGLSYDL QNTIYGMYLS VKRYNDKQPI LLKKITEKMA TFEIDKKRFE
	IIKEAYMRSL NNFRAEQPHQ HAMYYLRLLM TEVAWTKDEL KEALDDVTLP RLKAFIPQLL

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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:

- 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

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• 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.
	 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:	\geq 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:	IDE
Alternative Name:	Ide (IDE Products)
Background:	Insulin-degrading enzyme (EC 3.4.24.56) (Insulin protease) (Insulinase) (Insulysin),FUNCTION:
	Plays a role in the cellular breakdown of insulin, APP peptides, IAPP peptides, natriuretic
	peptides, glucagon, bradykinin, kallidin, and other peptides, and thereby plays a role in
	intercellular peptide signaling (PubMed:9830016, PubMed:12634421, PubMed:12732730,
	PubMed:24847884, PubMed:26394692). Substrate binding induces important conformation
	changes, making it possible to bind and degrade larger substrates, such as insulin (By
	similarity). Contributes to the regulation of peptide hormone signaling cascades and regulation
	of blood glucose homeostasis via its role in the degradation of insulin, glucagon and IAPP
	(PubMed:24847884, PubMed:26394692). Plays a role in the degradation and clearance of APP
	derived amyloidogenic peptides that are secreted by neurons and microglia (PubMed:9830016
	Degrades the natriuretic peptides ANP, BNP and CNP, inactivating their ability to raise
	intracellular cGMP (By similarity). Also degrades an aberrant frameshifted 40-residue form of
	NPPA (fsNPPA) which is associated with familial atrial fibrillation in heterozygous patients (By
	similarity). Involved in antigen processing. Produces both the N terminus and the C terminus o
	MAGEA3-derived antigenic peptide (EVDPIGHLY) that is presented to cytotoxic T lymphocytes
	by MHC class I. {ECO:0000250 UniProtKB:P14735, ECO:0000269 PubMed:12634421,
	EC0:0000269 PubMed:12732730, EC0:0000269 PubMed:24847884,
	ECO:0000269 PubMed:26394692, ECO:0000269 PubMed:9830016}.

Target Details	
Molecular Weight:	117.8 kDa
UniProt:	Q9JHR7
Pathways:	SARS-CoV-2 Protein Interactome
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)

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