Datasheet for ABIN3090437

BMS1 Protein (AA 1-1282) (Strep Tag)

1 Image

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Overview

Quantity:	1 mg
Target:	BMS1
Protein Characteristics:	AA 1-1282
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BMS1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MEAKDQKKHR KKNSGPKAAK KKKRLLQDLQ LGDEEDARKR NPKAFAVQSA VRMARSFHRT QDLKTKKHHI PVVDRTPLEP PPIVVVVMGP PKVGKSTLIQ CLIRNFTRQK LTEIRGPVTI VSGKKRRLTI IECGCDINMM IDLAKVADLV LMLIDASFGF EMETFEFLNI CQVHGFPKIM GVLTHLDSFK HNKQLKKTKK RLKHRFWTEV YPGAKLFYLS GMVHGEYQNQ EIHNLGRFIT VMKFRPLTWQ TSHPYILADR MEDLTNPEDI RTNIKCDRKV SLYGYLRGAH LKNKSQIHMP GVGDFAVSDI SFLPDPCALP EQQKKRCLNE KEKLVYAPLS GVGGVLYDKD AVYVDLGGSH VFQDEVGPTH ELVQSLISTH STIDAKMASS RVTLFSDSKP LGSEDIDNQG LMMPKEEKQM DLNTGRMRRK AIFGDEDESG DSDDEEDDEM SEDDGLENGS SDEEAEEEEN AEMTDQYMAV KGIKRRKLEL EEDSEMDLPA FADSDDDLER SSAEEGEAEE ADESSEEEDC TAGEKGISGS KAAGEGSKAG LSPANCQSDR VNLEKSLLMK KAALPTFDSG HCTAEEVFAS EDESEESSSL SAEEEDSENE EAIRKKLSKP SQVSSGQKLG PQNFIDETSD IENLLKEEED YKEENNDSKE TSGALKWKED LSRKAAEAFL RQQQAAPNLR KLIYGTVTED NEEEDDDTLE ELGGLFRVNQ

PDRECKHKAD SLDCSRFLVE APHDWDLEEV MNSIRDCFVT GKWEDDKDAA KVLAEDEELY GDFEDLETGD VHKGKSGPNT QNEDIEKEVK EEIDPDEEES AKKKHLDKKR KLKEMFDAEY DEGESTYFDD LKGEMQKQAQ LNRAEFEDQD DEARVQYEGF RPGMYVRIEI ENVPCEFVQN FDPHYPIILG GLGNSEGNVG YVQMRLKKHR WYKKILKSRD PIIFSVGWRR FQTIPLYYIE DHNGRQRLLK YTPQHMHCGA AFWGPITPQG TGFLAIQSVS GIMPDFRIAA TGVVLDLDKS IKIVKKLKLT GFPYKIFKNT SFIKGMFNSA LEVAKFEGAV IRTVSGIRGQ IKKALRAPEG AFRASFEDKL LMSDIVFMRT WYPVSIPAFY NPVTSLLKPV GEKDTWSGMR TTGQLRLAHG VRLKANKDSL YKPILRQKKH FNSLHIPKAL QKALPFKNKP KTQAKAGKVP KDRRRPAVIR EPHERKILAL LDALSTVHSQ KMKKAKEQRH LHNKEHFRAK QKEEEEKLKR QKDLRKKLFR IQGQKERRNQ KSSLKGAEGQ LQ

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 -

Product Details

	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 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)
Grade:	Crystallography grade

Target Details

Target:	BMS1
Alternative Name:	BMS1 (BMS1 Products)
Background:	Ribosome biogenesis protein BMS1 homolog (Ribosome assembly protein BMS1 homolog),FUNCTION: Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome. {ECO:0000269|PubMed:34516797}.
Molecular Weight:	145.8 kDa
UniProt:	Q14692
Pathways:	Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly

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)

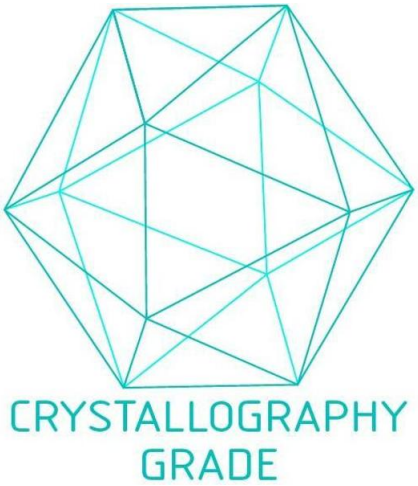

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process