Datasheet for ABIN3137338

SFMBT1 Protein (AA 1-863) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	SFMBT1
Protein Characteristics:	AA 1-863
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SFMBT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSGEQQLDAD LGSGVEVEEF SWEDYLEETG STTVPYASFK HVDIRLQNGF APGMKLEVAL KNDPETYWVA TIITACEQLL LLRYEGYGED RKADFWCDIR KAGLYPIGWC QQNKKTLEAP EGIRDKVSDW NAFLQQTLIG ACGPPVSLLE GLRNGRNPLD LIAPGSKLEC QDFRDSLSTW LVTVVENIGG RLKLRYEGLE SRDGFEHWLY YLDPFLHHIG WAAQQGCDLQ PPLAIKHLKS EADWQEILAK VKEEEPLPSY LFKDKQVIGT HEFSINMKLE AVDPWSPFGI SPATIAKVFD DKYFLVEMDD LRPEDHTRRS FVCHANSPGI FPVQWSLKNG LHINPPPGFR SQDFDWADYL KQCGAEAAPQ KCFPQSISEH QFKENMKLEA VNPLFPEEVC IATVTAVRGS YLWLQLEGSK KPVPEFIVSA ESMNIFPLGW CETNGHPLST PRRARGHKLR KIAVVQPEKQ ILSSRTVHEG LKNQLNSTHS VMINGKYCCP KIYFNHRCFS GPYLNKGRIA ELPQCVGPGN CVLVLREVLT LLINAAYKPS RVLRELQLDK DSVWHGCGEV LKAKYKGKSY RATVEIVRTA DRVTEFCRQT CIKLECCPNL FGPRMVLDTC SENCSVLTKT KYTHYYGKKK NKRIGRPPGG HSNLSCALKK

SSKRRKRRKN IFVHKKKRSS ASVDNTPVGS PQGSGGEDEE DADDGDEDSL TEGSTSEQQE ELQEESEVSE KKSSSSSPTQ SETPTPLPPD TQTNKRDAQT SSVSDDENKP PSPKEIRIEV DERLHLDSNP LKWSVADVVR FIRSTDCAPL ARIFLDQEID GQALLLLTLP TVQECMDLKL GPAIKLCHHI ERIKFAFYEQ FAN

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 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	SFMBT1
Alternative Name:	Sfmbt1 (SFMBT1 Products)
Background:	Scm-like with four MBT domains protein 1,FUNCTION: Histone-binding protein, which is part of various corepressor complexes. Mediates the recruitment of corepressor complexes to target genes, followed by chromatin compaction and repression of transcription. Plays a role during myogenesis: required for the maintenance of undifferentiated states of myogenic progenitor cells via interaction with MYOD1. Interaction with MYOD1 leads to the recruitment of associated corepressors and silencing of MYOD1 target genes. Part of the SLC complex in germ cells, where it may play a role during spermatogenesis. {ECO:0000269|PubMed:23349461}.
Molecular Weight:	97.3 kDa
UniProt:	Q9JMD1

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

Application Details

	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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months