Datasheet for ABIN3137321

MMEL1 Protein (AA 1-765) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MMEL1
Protein Characteristics:	AA 1-765
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MMEL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MVERAGWCRK KSPGFVEYGL MVLLLLLLGA IVTLGVFYSI GKQLPLLTSL LHFSWDERTV VKRALRDSSL KSDICTTPSC VIAAARILEN MDQSRNPCEN FYQYACGGWL RHHVIPETNS RYSVFDILRD ELEVILKGVL EDSTSQHRPA VEKAKTLYRS CMNQSVIEKR DSEPLLSVLK MVGGWPVAMD KWNETMGLKW ELERQLAVLN SQFNRRVLID LFIWNDDQNS SRHVIYIDQP TLGMPSREYY FQEDNNHKVR KAYLEFMTSV ATMLRKDQNL SKESAMVREE MAEVLELETH LANATVPQEK RHDVTALYHR MDLMELQERF GLKGFNWTLF IQNVLSSVEV ELFPDEEVVV YGIPYLENLE DIIDSYSART MQNYLVWRLV LDRIGSLSQR FKEARVDYRK ALYGTTVEEV RWRECVSYVN SNMESAVGSL YIKRAFSKDS KSTVRELIEK IRSVFVDNLD ELNWMDEESK KKAQEKAMNI REQIGYPDYI LEDNNKHLDE EYSSLTFYED LYFENGLQNL KNNAQRSLKK LREKVDQNLW IIGAAVVNAF YSPNRNQIVF PAGILQPPFF SKDQPQSLNF GGIGMVIGHE ITHGFDDNGR NFDKNGNMLD WWSNFSARHF QQQSQCMIYQ YGNFSWELAD NQNVNGFSTL

GENIADNGGV RQAYKAYLRW LADGGKDQRL PGLNLTYAQL FFINYAQVWC GSYRPEFAVQ SIKTDVHSPL KYRVLGSLQN LPGFSEAFHC PRGSPMHPMK RCRIW

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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	MMEL1
Alternative Name:	Mmel1 (MMEL1 Products)
Background:	Membrane metallo-endopeptidase-like 1 (EC 3.4.24.11) (NEP2(m)) (Neprilysin II) (NEPII) (Neprilysin-2) (NEP2) (NL2) (Neprilysin-like 1) (NL-1) (Neprilysin-like peptidase) (NEPLP) (Soluble secreted endopeptidase) [Cleaved into: Membrane metallo-endopeptidase-like 1, soluble form (Neprilysin-2 secreted) (NEP2(s))],FUNCTION: Metalloprotease involved in sperm function, possibly by modulating the processes of fertilization and early embryonic development. Degrades a broad variety of small peptides with a preference for peptides shorter than 3 kDa containing neutral bulky aliphatic or aromatic amino acid residues. Shares the same substrate specificity with MME and cleaves peptides at the same amide bond. {ECO:0000269|PubMed:10542292, ECO:0000269|PubMed:11278416}.
Molecular Weight:	88.7 kDa
UniProt:	Q9JLI3

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!

Application Details

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