

Datasheet for ABIN3133501

alpha-Mannosidase II Protein (AA 1-1150) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	alpha-Mannosidase II (MAN2A1)
Protein Characteristics:	AA 1-1150
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This alpha-Mannosidase II protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MKLSRQFTVF GSAIFCVVIF SLYLMLDRGH LDYPRGPRQE GSFPQGQLSI LQEKIDHLER</p> <p>LLAENNEIIS NIRDVINLS ESVEDGPRGS PGNASQGSIH LHSPQLALQA DPRDCLFASQ</p> <p>SGSQPRDVQM LDVYDLIPFD NPDGGVWKQG FDIKYEADWE DHEPLQVFVV PHSHNDPGWL</p> <p>KTFNDYFRDK TQYIFNNMVL KLKEDSSRKF MWSEISYLAK WWDIIDIPKK EAVKSLLQNG</p> <p>QLEIVTGGWV MPDEATPHYF ALIDQLIEGH QWLEKNLGVK PRSGWAIDPF GHSPTMAYLL</p> <p>KRAGFSHMLI QRVHYAIKKH FSLHKTLEFF WRQNWDLGSA TDILCHMMPF YSYDIPHTCG</p> <p>PDPKICCCQFD FKRLPGGRYG CPWGVPEAI SPGNVQSRAQ MLLDQYRKKS KLFRTKVLLA</p> <p>PLGDDFRFSE YTEWDLQCRN YEQLFSYMNS QPHLKVKIQF GTLSDYFDAL EKAVAAEKKS</p> <p>SQSVFPALSG DFFTYADRDD HYWSGYFTSR PFYKRMDRIM ESRIRAAEIL YQLALKQAQK</p> <p>YKINKFLSSP HYTTLTEARR NLGLFQHHDA ITGTAKDWVV VDYGTRLFQS LNSLEKIIGD</p> <p>SAFLILKDK KLYQSDPSKA FLEMDTKQSS QDSLPPQKIII QLSAQEPRYL VVYNPFEEQR</p>

HSVVSIRVNS ATVKVLSDSG KPVEVQVSAV WNDMRTISQA AYEVSFLAHI PPLGLKVFKI
LESQSSSSHL ADYVLYNNDG LAENGIFHVK NMVDAGDAIT IENPFLAIWF DRSGLMKVR
RKEDSRQHEL KVQFLWYGTT NKRDKSGAYL FLPDGGQGPY VSLRPPFVRV TRGRIYSDVT
CFLEHVTHKV RLYNIQGIEG QSMEVSNIVN IRNVHNREIV MRRSSKINNQ NRYYTDLNGY
QIQPRRTMSK LPLQANVYPM CTMAYIQDAE HRLTLLSAQS LGASSMASGQ IEVFMDDRRLM
QDDNRGLGQG VHDNKITANL FRILLEKRSA VNMEEEKKSP VSYPSSLISHM TSSFLNHPFL
PMVLSGQLPS PAFELLSEFP LLQSSLPCDI HLVNLRTIQS KMGKGYSDEA ALILHRKGFD
CQFSSRGIGL PCSTTQGKMS VLKLFNKFAV ESLVPSSLSL MHSPDAQNM SEVSLSPMEI
STFRIRLRWT

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!

Product Details

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®).

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

Grade: custom-made

Target Details

Target: alpha-Mannosidase II (MAN2A1)

Alternative Name: Man2a1 ([MAN2A1 Products](#))

Background: Alpha-mannosidase 2 (EC 3.2.1.114) (Golgi alpha-mannosidase II) (AMan II) (Man II) (Mannosidase alpha class 2A member 1) (Mannosyl-oligosaccharide 1,3-1,6-alpha-mannosidase),FUNCTION: Catalyzes the first committed step in the biosynthesis of complex N-glycans. It controls conversion of high mannose to complex N-glycans, the final hydrolytic step in the N-glycan maturation pathway. {ECO:0000250|UniProtKB:P28494}.

Molecular Weight: 131.6 kDa

UniProt: [P27046](#)

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.

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Application Details

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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