

Datasheet for ABIN3088940

ALDH1L2 Protein (AA 1-923) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	ALDH1L2
Protein Characteristics:	AA 1-923
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH1L2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MLRRGSQALR RFSTGRVYFK NKLKLALIGQ SLFGQEVYSH LRKEGHRVVG VFTVPDKDGK</p> <p>ADPLALAAEK DGTPVFKLPK WRVKGKTIKE VAEAYRSVGA ELNVLPFCTQ FIPMDIIDSP</p> <p>KHGSIIYHPS ILPRHRGASA INWTLIMGDK KAGFSVFWAD DGLDTGPILL QRSCDVEPN</p> <p>TVDALYNRFL FPEGIKAMVE AVQLIADGKA PRIPQPEEGA TYEGIQKKEN AEISWDQSAE</p> <p>VLHNWIRGHD KVPGAWTEIN GQMVTFGYST LLNSSVPPGE PLEIKGAKKP GLVTKNGLVL</p> <p>FGNDGKALT V RNLQFEDGKM IPASQYFSTG ETSVVELTAE EVKVAETIKV IWAGILSNVP</p> <p>IIEDSTDFFK SGASSMDVAR LVEEIRQKCG GLQLQNEDVY MATKFEGFIQ KVRKLRGED</p> <p>QEVELVDYI SKEVNEIMVK MPYQCFINGQ FTDADDGKTY DTINPTDGST ICKVSYASLA</p> <p>DVDKAVAAAK DAFENGWGR MNARERGRM YRLADLLEEN QEELATIEAL DSGAVYTLAL</p> <p>KTHIGMSVQT FRYFAGWCDK IQGSTIPINQ ARPNRNLFTT KKEPLGVCAI IIPWNYPLMM</p> <p>LAWKSAACLA AGNTLVLPKA QVTPLTALKF AELSVKAGFP KGVINIIPGS GGIAGQRLSE</p>

HPDIRKLGFT GSTPIGKQIM KSCAVSNLKK VSLELGKSP LIIFNDCELD KAVRMGMGAV
FFNKGENCIA AGRLFVEESI HDEFVTRVVE EIKKMKIGDP LDRSTDHGPQ NHKAHLEKLL
QYCETGVKEG ATLVYGGQV QRPGEFMEPT VFTDVEDYMY LAKEESFGPI MVISKFQNGD
IDGVLQRANS TEYGLASGVF TRDINKAMYV SEKLEAGTVF INTYNKTDVA APFGGVKQSG
FGKDLGEEAL NEYLKTKTVT LEY

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:	ALDH1L2
Alternative Name:	ALDH1L2 (ALDH1L2 Products)
Background:	Mitochondrial 10-formyltetrahydrofolate dehydrogenase (Mitochondrial 10-FTHFDH) (mtFDH) (EC 1.5.1.6) (Aldehyde dehydrogenase family 1 member L2),FUNCTION: Mitochondrial 10-formyltetrahydrofolate dehydrogenase that catalyzes the NADP(+)-dependent conversion of 10-formyltetrahydrofolate to tetrahydrofolate and carbon dioxide. {ECO:0000269 PubMed:21238436}.
Molecular Weight:	101.7 kDa
UniProt:	Q3SY69

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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