

Datasheet for ABIN3137116 MFSD2A Protein (AA 1-534) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MFSD2A
Protein Characteristics:	AA 1-534
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFSD2A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAKGEGAESG SAAGLLPTSI LQASERPVQV KKEPKKKQQL SICNKLCYAV GGAPYQLTGC
	ALGFFLQIYL LDVAKVEPLP ASIILFVGRA WDAFTDPLVG FCISKSSWTR LGRLMPWIIF
	STPLAIIAYF LIWFVPDFPS GTESSHGFLW YLLFYCLFET LVTCFHVPYS ALTMFISTEQ
	SERDSATAYR MTVEVLGTVI GTAIQGQIVG QAKAPCLQDQ NGSVVVSEVA NRTQSTASLK
	DTQNAYLLAA GIIASIYVLC AFILILGVRE QRELYESQQA ESMPFFQGLR LVMGHGPYVK
	LIAGFLFTSL AFMLVEGNFA LFCTYTLDFR NEFQNLLLAI MLSATFTIPI WQWFLTRFGK
	KTAVYIGISS AVPFLILVAL MERNLIVTYV VAVAAGVSVA AAFLLPWSML PDVIDDFHLK
	HPHSPGTEPI FFSFYVFFTK FASGVSLGVS TLSLDFANYQ RQGCSQPEQV KFTLKMLVTM
	APIILILLGL LLFKLYPIDE EKRRQNKKAL QALREEASSS GCSDTDSTEL ASIL
	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

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

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Target Details	
Target:	MFSD2A
Alternative Name:	Mfsd2a (MFSD2A Products)
Background:	Sodium-dependent lysophosphatidylcholine symporter 1 (NLS1) (Sodium-dependent LPC symporter 1) (Major facilitator superfamily domain-containing protein 2A) (Mfsd2a),FUNCTION Sodium-dependent lysophosphatidylcholine (LPC) symporter, which plays an essential role for blood-brain barrier formation and function (PubMed:18694395, PubMed:23209793, PubMed:24828044, PubMed:24828040, PubMed:34349262). Specifically expressed in endothelium of the blood-brain barrier of micro-vessels and transports LPC into the brain (PubMed:24828044, PubMed:24828040, PubMed:34349262). Transport of LPC is essential because it constitutes the major mechanism by which docosahexaenoic acid (DHA), an omega 3 fatty acid that is essential for normal brain growth and cognitive function, enters the brain (PubMed:24828044, PubMed:24828040, PubMed:34349262). Transports LPC carrying long-chain fatty acids such LPC oleate and LPC palmitate with a minimum acyl chain length of 14 carbons (PubMed:24828044, PubMed:34349262). Does not transport docosahexaenoic acid in unesterified fatty acid (PubMed:24828044). Not required for central nervous system vascular morphogenesis (PubMed:24828040). {ECO:0000269 PubMed:24828040, ECO:0000269 PubMed:24828040, ECO:000026
Molecular Weight:	59.0 kDa
UniProt:	Q9DA75
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

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Application Details	
	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. 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