

Datasheet for ABIN7564999

MFSD2A Protein (AA 1-534) (His tag)



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Overview

Quantity:	1 mg
Target:	MFSD2A
Protein Characteristics:	AA 1-534
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFSD2A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mfsd2a Protein expressed in mammalian cells.
Sequence:	<p>MAKGEGAESG SAAGLLPTSI LQASERPVQV KKEPKKKQQL SICNKL CYAV GGAPYQLTGC</p> <p>ALGFFLQIYL LDVAKVEPLP ASIILFVGRA WDAFTDPLVG FCISKSSWTR LGRLMPWIIF</p> <p>STPLAI IAYF LIWFVPDFPS GTESSHGFLW YLLFYCLFET LVTCFHVPYS ALTMFISTEQ</p> <p>SERDSATAYR MTVEVLGTVI GTAIQGQIVG QAKAPCLQDQ NGSVVVSEVA NRTQSTASLK</p> <p>DTQNAYLLAA GIIASIYVLC AFILILGVRE QRELYESQQA ESMPPFQGLR LVMGHGPPYVK</p> <p>LIAGFLFTSL AFMLVEGNFA LFCTYTLDFR NEFQNLLAI MLSATFTIPI WQWFLTRFGK</p> <p>KTAVYIGISS AVPFLILVAL MERNLIVTYV VAVAAGVSVA AAFLLPWSML PDVIDDFHLK</p> <p>HPHSPGTEPI FFSFYVFFTK FASGVSLGVS TSLDFANYQ RQGCSQPEQV KFTLKMLVTM</p> <p>APIILILLGL LLFKLYPIDE EKRRQNKKAL QALREEASSS GCSDTDSTEL ASIL Sequence without tag. The proposed Purification-Tag is based on experiences 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.</p>

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	MFSD2A
Alternative Name:	Mfsd2a (MFSD2A Products)
Background:	<p>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</p>

Target Details

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:18694395, ECO:0000269|PubMed:23209793, ECO:0000269|PubMed:24828040, ECO:0000269|PubMed:24828044, ECO:0000269|PubMed:34349262}.

Molecular Weight: 59.0 kDa

UniProt: [Q9DA75](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months