

Datasheet for ABIN7554772

## MFSD2A Protein (AA 1-543) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	MFSD2A
Protein Characteristics:	AA 1-543
Origin:	Human
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>MAKGEAESG SAAGLLPTSI LQSTERPAQV KKEPKKKKQQ LSVCNKLCYA LGGAPYQVTG  CALGFFLQIY LLDVAQKDEE VVFCFSSFQV GPFSASIILF VGRAWDAITD PLVGLCISKS  PWTCLGRLMP WIIFSTPLAV IAYFLIWFVP DFPHGQTYWY LLFYCLFETM VTCFHVYPYSA  LTMFISTEQT ERDSATAYRM TVEVLGTVLG TAIQQQIVGQ ADTPCFQDLN SSTVASQSAN  HTHGTTSBRE TQKAYLLAAG VIVCIYICA VILILGVREQ REPYEAQQSE PIAYFRGLRL  VMSHGPIYKL ITGFLFTSLA FMLVEGNFVL FCTYTLGFRN EFQNLLLAIM LSATLTIPIW  QWFLTRFGKK TAVYVGISSA VPFLILVALM ESNIITYAV AVAAGISVAA AFLLPWSMLP  DVIDDFHLKQ PHFHGTPIF FSFYVFFTKF ASGVSLGIST LSLDFAGYQT RGCSQPERVK  FTLNMLVTMA PIVLILLGLL LFKMYPIDEE RRRQNKALQ ALRDEASSSG CSETDSTELA SIL</p> <p><b>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.</b></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"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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 ( <a href="#">MFSD2A Products</a> )
Background:	<p>Sodium-dependent lysophosphatidylcholine symporter 1 (NLS1) (Sodium-dependent LPC symporter 1) (Major facilitator superfamily domain-containing protein 2A) (HsMFSD2A) (MFSD2a),FUNCTION: Sodium-dependent lysophosphatidylcholine (LPC) symporter, which plays an essential role for blood-brain barrier formation and function (PubMed:24828040, PubMed:34135507, PubMed:32572202). Specifically expressed in endothelium of the blood-brain barrier of micro-vessels and transports LPC into the brain (By similarity). 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:34135507, PubMed:26005868). Transports LPC carrying long-chain fatty acids such LPC oleate and LPC palmitate with a minimum acyl chain length of 14 carbons (By similarity). Does not transport docosahexaenoic acid in unesterified fatty acid (By</p>

## Target Details

similarity). Specifically required for blood-brain barrier formation and function, probably by mediating lipid transport (By similarity). Not required for central nervous system vascular morphogenesis (By similarity). Acts as a transporter for tunicamycin, an inhibitor of asparagine-linked glycosylation (PubMed:21677192). In placenta, acts as a receptor for ERVFRD-1/syncytin-2 and is required for trophoblast fusion (PubMed:18988732, PubMed:23177091). {ECO:0000250|UniProtKB:Q9DA75, ECO:0000269|PubMed:18988732, ECO:0000269|PubMed:21677192, ECO:0000269|PubMed:23177091, ECO:0000269|PubMed:24828040, ECO:0000269|PubMed:26005868, ECO:0000269|PubMed:34135507}.

Molecular Weight:	60.2 kDa
-------------------	----------

UniProt:	<a href="#">Q8NA29</a>
----------	------------------------

## 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
--------------	-----------