

Datasheet for ABIN7557043
MFSD2B Protein (AA 1-494) (His tag)



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Overview

Quantity:	1 mg
Target:	MFSD2B
Protein Characteristics:	AA 1-494
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MFSD2B protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Mfsd2b Protein expressed in mammalian cells.
Sequence:	<p>MSVPHGPTPA PVAEPHTQEP GSDKRDGRLS VCTKVCYGIG GVPNQVASSA SAFYLQLFLL DVAQIPAAQV SLALFGGKVS GAVADPVAGF FINKSRRTGS GRLMPWALGC MPLIALAYFF LWFLPPFTSL RGLWYTSFYC LFQALATFFQ VPYTALTMIL TSPRERDSA TAYRMTMEMA GTLMGATVHG LIVSSAHGSQ RCEDTVHPRS PAVSPDVARL YCIAAAVVAL TYPVCGSLLC LGVKEQPDTS APASGQGLNF FTGLAITSQH PPYLSLVVSF LFISA AVQVE QSYLVLFCTH ASKLQDHVQN LVLILVSAV LSTPLWEWVL QRF GK KTS AF GICVMVPFSI LLA AVPSAPV AYV VAFVSGV SIAV SLLL PW SMLPDVVDDF QLQHRCGPGV ETIFYSSYVF FTKLSGAGAL GISTLSLEFA GCEAGACQQA EEVVTLKVL IGAVPTCMIL IGLCILLVGP TPKMPRQDTS SQLSLRRRTS YSLA 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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

MFSD2B

Alternative Name:

Mfsd2b ([MFSD2B Products](#))

Background:

Sphingosine-1-phosphate transporter MFSD2B (Major facilitator superfamily domain-containing protein 2B) (mMfsd2b),FUNCTION: Lipid transporter that specifically mediates export of sphingosine-1-phosphate in red blood cells and platelets (PubMed:29045386, PubMed:29563527, PubMed:33334894, PubMed:33863882). Sphingosine-1-phosphate is a signaling sphingolipid and its export from red blood cells into in the plasma is required for red blood cell morphology (PubMed:29045386). Sphingosine-1-phosphate export from platelets is required for platelet aggregation and thrombus formation (PubMed:33863882). Mediates the export of different sphingosine-1-phosphate (S1P) species, including S1P(d18:0) (sphinganine 1-phosphate), S1P (d18:1) (sphing-4-enine 1-phosphate) and S1P (d18:2) (sphinga-4E,14Z-dienine-1-phosphate) (PubMed:33863882). Release of sphingosine-1-phosphate is facilitated by a proton gradient (PubMed:33334894). In contrast, cations, such as sodium, are not required to drive sphingosine-1-phosphate transport (PubMed:29563527, PubMed:33334894). In addition

Target Details

to export, also able to mediate S1P import (PubMed:33785361). Does not transport lysophosphatidylcholine (LPC) (PubMed:29045386). {ECO:0000269|PubMed:29045386, ECO:0000269|PubMed:29563527, ECO:0000269|PubMed:33334894, ECO:0000269|PubMed:33785361, ECO:0000269|PubMed:33863882}.

Molecular Weight: 52.8 kDa

UniProt: [Q3T9M1](#)

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