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# Product Information

## MemDX™ Membrane Protein Human FA2H (Fatty acid 2-hydroxylase) for Antibody Discovery

Cat. No.: **MP0493J**
This product is for research use only and is not intended for diagnostic use.

This product is a 42.6 kDa Human FA2H membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

## Product Specifications

**Host Species**
Human

**Target Protein**
FA2H

**Protein Length**
Full-length

**Protein Class**
Transmembrane

**Molecular Weight**
42.6 kDa

**TMD**
4

**Sequence**
MAPAPPPAASFSPSEVQRRLAAGACWVRRGARLYDLSSFVRHHPGGEQLLRARAGQDISADLDGPPHRHS
ANARRWLEQYYVGELRGEQQGSMENEPVALEETQKTDPAMEPRFKVVDWDKDLVDWRKPLLWQVGHLGEK
YDEWVHQPVTRPIRLFHSDLIEGLSKTVWYSVPIIWVPLVLYLSWSYYRTFAQGNVRLFTSFTTEYTVAV
PKSMFPGLFMLGTFLWSLIEYLIHRFLFHMKPPSDSYYLIMLHFVMHGQHHKAPFDGSRLVFPPVPASLV
IGVFYLCMQLILPEAVGGTVFAGGLLGYVLYDMTHYYLHFGSPHKGSYLYSLKAHHVKHHFAHQKSGFGI
STKLWDYCFHTLTPEKPHLKTQ

## Product Description

**Expression Systems**
HEK293T

**Tag**
C-Myc/DDK

**Form**

Liquid

**Purification**

Anti-DDK affinity column followed by conventional chromatography steps

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer**

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

**Storage**

Store at +4°C for up to one week or several months at -80°C

## Target

**Target Protein**

FA2H

**Full Name**

Fatty acid 2-hydroxylase

**Introduction**

This gene encodes a protein that catalyzes the synthesis of 2-hydroxysphingolipids, a subset of sphingolipids that contain 2-hydroxy fatty acids. Sphingolipids play roles in many cellular processes and their structural diversity arises from modification of the hydrophobic ceramide moiety, such as by 2-hydroxylation of the N-acyl chain, and the existence of many different head groups. Mutations in this gene have been associated with leukodystrophy dysmyelinating with spastic paraparesis with or without dystonia.

**Alternative Names**

FAAH; FAH1; SCS7; SPG35; FAXDC1

**Gene ID**

79152

**UniProt ID**

Q7L5A8

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