

Recombinant Mouse Fa2h Protein, Myc/DDK-tagged

Cat. No. Fa2h-2901M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length fatty acid 2-hydroxylase (Fa2h), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Catalyzes the hydroxylation of free fatty acids at the C-2 position to produce 2-hydroxy fatty acids, which are building blocks of sphingolipids and glycosphingolipids common in neural tissue and epidermis. FA2H is stereospecific for the production of (R)-2-hydroxy fatty acids. Plays an essential role in the synthesis of galactosphingolipids of the myelin sheath. Responsible for the synthesis of sphingolipids and glycosphingolipids involved in the formation of epidermal lamellar bodies critical for skin permeability barrier. Participates in the synthesis of glycosphingolipids and a fraction of type II wax diesters in sebaceous gland, specifically regulating hair follicle homeostasis. Involved in the synthesis of sphingolipids of plasma membrane rafts, controlling lipid raft mobility and trafficking of raft-associated proteins.
Molecular Mass	43 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Fa2h fatty acid 2-hydroxylase [Mus musculus (house mouse)]
Official Symbol	Fa2h
Synonyms	FA2H; fatty acid 2-hydroxylase; fatty acid alpha-hydroxylase; fatty acid hydroxylase domain containing 1; FAAH; Faxdc1; G630055L08Rik
Gene ID	338521
mRNA Refseq	NM_178086
Protein Refseq	NP_835187
UniProt ID	Q5MPP0

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