

Recombinant Human FA2H Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FA2H-1254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FA2H MS Standard C13 and N15-labeled recombinant protein (NP_077282) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	42.8 kDa
AA Sequence	MAPAPPPAASFSPSEVQRRRLAAGACWVRGARLYDLSSFVRHHHPGGEQLLRARAG QDISADLDGPPHRHSANARRWLEQYYVGELRGEQQGSMENEPVALEETQKTDPA EPRFKVVDWDKDLVDWRKPLLWQVGHLEGEYDEWVHQPVTRPIRLFHSDLIEGLSK TVWYSVPPIWVPLVLYLSWSYYRTFAQGNVRLFTSFTTEYTVAVPKSMFPGLFMLGT FLWSLIEYLIHRFLFHMKPPSDSYLIMLHFVMHGQHHKAPFDGSRVFPVPASLVI GVFYLCMQILPEAVGGTVFAGGLLGYVLYDMTHYYLHFGSPHKGSYLYSLKAHHV

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	KHHFAHQKSGFGISTKLWDYCFHTLTPEKPHLKTQTRTRPLEQKLISEEDLAANDILD YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FA2H fatty acid 2-hydroxylase [Homo sapiens (human)]
Official Symbol	FA2H
Synonyms	FA2H; fatty acid 2-hydroxylase; fatty acid hydroxylase domain containing 1, FAXDC1, spastic paraplegia 35 (autosomal recessive), SPG35; FAAH; fatty acid hydroxylase; FLJ25287; fatty acid alpha-hydroxylase; fatty acid hydroxylase domain containing 1; spastic paraplegia 35 (autosomal recessive); FAH1; SCS7; SPG35; FAXDC1;
Gene ID	79152
mRNA Refseq	NM_024306
Protein Refseq	NP_077282

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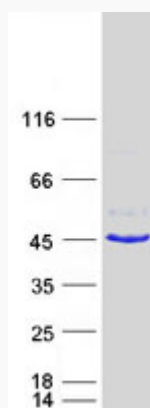
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MIM 611026

UniProt ID Q7L5A8

SDS-PAGE



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