

## Recombinant Human FA2H, His-tagged

Cat. No. FA2H-12628H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human FA2H protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-164a.a.
<b>Description</b>	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.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	FA2H fatty acid 2-hydroxylase [ Homo sapiens ]
<b>Official Symbol</b>	FA2H
<b>Synonyms</b>	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;
<b>Gene ID</b>	79152
<b>mRNA Refseq</b>	NM_024306
<b>Protein Refseq</b>	NP_077282
<b>MIM</b>	611026
<b>UniProt ID</b>	Q7L5A8
<b>Chromosome Location</b>	16q23
<b>Function</b>	heme binding; metal ion binding; oxidoreductase activity;

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