

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

Cat. No. FH-4851H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FH MS Standard C13 and N15-labeled recombinant protein (NP_000134) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is an enzymatic component of the tricarboxylic acid (TCA) cycle, or Krebs cycle, and catalyzes the formation of L-malate from fumarate. It exists in both a cytosolic form and an N-terminal extended form, differing only in the translation start site used. The N-terminal extended form is targeted to the mitochondrion, where the removal of the extension generates the same form as in the cytoplasm. It is similar to some thermostable class II fumarases and functions as a homotetramer. Mutations in this gene can cause fumarase deficiency and lead to progressive encephalopathy.
Molecular Mass	54.6 kDa
AA Sequence	MYRALRLLARSRLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDT FGELKVPNDKYYGAQTVRSTMNFKIGGVTERMPTPVIAFGILKRAAAEVNQDYGLD PKIANAIMKAADEVAEGKLNDHFPLVWQTGSGTQTNMNVNEVISNRAIEMLGGEIG SKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQII KIGRTHQTQDAVPLTLGQEFSGYVQVQKYAMTRIKAAMPRIYELAAGGTAVGTGLNTR

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IGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALEVELSGAMNTTACSLMKIANDIRF
 LGSGPRSGLGELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGS
 NGHFEINLVFKPMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMNESLMLV
 TALNPHIGYDKAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPKTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

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 FH fumarate hydratase [Homo sapiens (human)]

Official Symbol FH

Synonyms FH; fumarate hydratase; fumarate hydratase, mitochondrial; fumarase; MCL; LRCC; HLRCC; MCUL1;

Gene ID 2271

mRNA Refseq NM_000143

Protein Refseq NP_000134

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MIM 136850

UniProt ID P07954

SDS-PAGE



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