

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

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

## SPECIFICATION

<b>Product Overview</b>	FH MS Standard C13 and N15-labeled recombinant protein (NP_000134) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Molecular Mass</b>	54.6 kDa
<b>AA Sequence</b>	MYRALRLLARSRPLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDT FGELKVPNDKYYGAQTVRSTMNFKIGGVTERMPVVIKAFGILKRAAAEVNQDYGLD PKIANAIMKAADEVAEGKLNDFPLVWVWQTGSGTQTNMNVNEVISNRAIEMLGGEIG SKIPVHPNDHVNKSQSSNDFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQII KIGRTHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTR

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IGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRF  
 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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