Recombinant Human FH

Cat. No. FH-28102TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human FH , Predicted MWt 50.2 kDa,
Species	Human
Source	E.coli
ProteinLength	467 amino acids
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 Weight	50.200kDa
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituent:0.32% Tris HCl

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Storage	Please see Notes section
Sequences of amino acids	MASQNSFRIE YDTFGELKVP NDKYYGAQTV RSTMNFKIGG VTERMPTPVI KAFGILKRAA AEVNQDYGLD PKIANAIMKA ADEVAEGKLN DHFPLVVWQT GSGTQTNMNV NEVISNRAIE MLGGELGSKI PVHPNDHVNK SQSSNDTFPT AMHIAAAIEV HEVLLPGLQK LHDALDAKSK EFAQIIKIGR THTQDAVPLT LGQEFSGYVQ QVKYAMTRIK AAMPRIYELA AGGTAVGTGL NTRIGFAEKV AAKVAALTGL PFVTAPNKFE ALAAHDALVE LSGAMNTTAC SLMKIANDIR FLGSGPRSGL GELILPENEP GSSIMPGKVN PTQCEAMTMV AAQVMGNHVA VTVGGSNGHF ELNVFKPMMI KNVLHSARLL GDASVSFTEN CVVGIQANTE RINKLMNESL MLVTALNPHI GYDKAAKIAK TAHKNGSTLK ETAIELGYLT AEQFDEWVKP KDMLGPK
Sequence Similarities	Belongs to the class-II fumarase/aspartase family. Fumarase subfamily.

GENE INFORMATION

Gene Name	FH fumarate hydratase [Homo sapiens]
Official Symbol	FH
Synonyms	FH; fumarate hydratase; fumarate hydratase, mitochondrial; fumarase;
Gene ID	2271
mRNA Refseq	NM_000143
Protein Refseq	NP_000134
MIM	136850

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Uniprot ID	P07954
Chromosome Location	1q42.1
Pathway	Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate => oxaloacetate, organism-specific biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate =>
Function	fumarate hydratase activity; lyase activity;

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