

Recombinant Human FH Protein, GST-tagged

Cat. No. FH-4158H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FH full-length ORF (AAH03108, 33 a.a. - 510 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq]
Molecular Mass	78.32 kDa
AA Sequence	VPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRSTMNFKIGGVTERM PTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVWQTGS GTQTNMNVNEVISNRAIEMLGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIE VHEVLLPGLQKLHDALDAKSKEFAQIIKIGRTHQTDAVPLTLGQEFSGYVQQVKYAM TRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKVAALTGLPFVTAPNKFEALAA HDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEPGSSIMPGKVNPT

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QCEAMTMVAAQVMGNHVAVTVGGSNHGFELNVFKPMMIKNVLHSARLLGDASVSF
TENCVVGIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIEL
GYLTAEQFDEWVKPKDMLGPK

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

FH fumarate hydratase [Homo sapiens]

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

MIM

136850

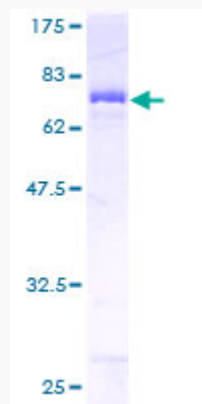
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UniProt ID P07954

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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