

## Product datasheet for **TP300614M**

### FH (NM\_000143) Human Recombinant Protein

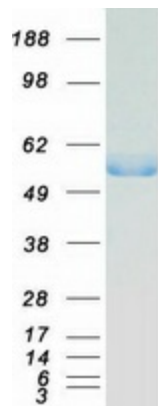
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fumarate hydratase (FH), nuclear gene encoding mitochondrial protein, 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200614 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	<p>MYRALRLLARSRPLVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYGA QTVRSTMNFKIGGVTERMPTPVIAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVV WQTGSGTQTNMNVNEVISNRAIEMLGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPG LQKLHDALDAKSKEFAQIIKIGRTHTQDAVPLTLGQEFSGYVQVQVKYAMTRIKAAMPRIYELAAGGTAVG TGLNTRIGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPR SGLGELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSSNGHFELNVFKPMMIKNVLHSA RLGDASVSFTENCVGIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHKNGSTLKETAIELG YLTAEQFDEWVKPKDMLGPK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p>
Tag:	C-Myc/DDK
Predicted MW:	50.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_000134</a>
<b>Locus ID:</b>	2271
<b>UniProt ID:</b>	<a href="#">P07954</a> , <a href="#">A0A0S2Z4C3</a>
<b>RefSeq Size:</b>	1877
<b>Cytogenetics:</b>	1q43
<b>RefSeq ORF:</b>	1530
<b>Synonyms:</b>	FMRD; HLRCC; HsFH; LRCC; MCL; MCUL1
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Metabolic pathways, Pathways in cancer, Renal cell carcinoma

**Product images:**

Coomassie blue staining of purified FH protein (Cat# [TP300614]). The protein was produced from HEK293T cells transfected with FH cDNA clone (Cat# [RC200614]) using MegaTran 2.0 (Cat# [TT210002]).