

Product datasheet for PH300614

FH (NM_000143) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FH MS Standard C13 and N15-labeled recombinant protein (NP_000134)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200614
Predicted MW:	54.6 kDa
Protein Sequence:	>RC200614 protein sequence Red=Cloning site Green=Tags(s)

MYRALRLLARSRLVVRAPAAALASAPGLGGAAVPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGA
QTVRSTMNFKIGGVTERMPTPVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLV
WQTGSGTQTNMNVNEVISNRAIEMLGELGSKIPVHPNDHVNSQSSNDTFPTAMHIAAAIEVHEVLLPG
LQKLHDALDAKSKEFAQIIKIGRTHQDAVPLTLGQEFSGYVQVQKYAMTRIKAAMPRIYELAAGGTAVG
TGLNTRIGFAEKVAAKVAALTGLPFVTAPNKFEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPR
SGLGELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNHGFELNVFKPMMIKNVLHSA
RLLDASVSFTENCVVGIQANTERINKLMNESLMLVLTALNPHIGYDKAAKIAKTAHKNSTLKETAIELG
YLTAEQFDEWVKPKDMLGPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000134</u>
RefSeq Size:	1877
RefSeq ORF:	1530



[View online »](#)

Synonyms: FMRD; HLRCC; HsFH; LRCC; MCL; MCUL1

Locus ID: 2271

UniProt ID: [P07954](#), [A0A0S2Z4C3](#)

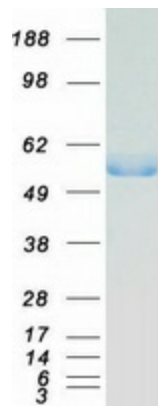
Cytogenetics: 1q43

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: 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]).