

## Product datasheet for **TP720199L**

### **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
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	Ala45-Lys510
Tag:	Tag Free
Predicted MW:	50.2 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
Endotoxin:	< 0.1 EU per µg protein as determined by LAL test
Storage:	Store at -80°C.
Stability:	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_000134</a>
Locus ID:	2271
UniProt ID:	<a href="#">P07954</a> , <a href="#">A0A0S2Z4C3</a>
Cytogenetics:	1q43
Synonyms:	FMRD; HLRCC; HsFH; LRCC; MCL; MCUL1



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**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:**