

## Recombinant Human FH protein, T7/His-tagged

**Cat. No.** FH-205H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| <b>Product Overview</b> | Recombinant human FH cDNA (45-510 aa) fused with T7-His-TEV cleavage site Tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 45-510 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Form</b>             | 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MASMTGGQQMGRGRHHHHHHENLYFQGGEFASQNSFRIEYDTFGELKVPNDKYYG<br>AQTVRSTMNFKIGGVTERMPT PVIKAFGILKRAAAEVNQDYGLDPKIANAIMKAADE<br>VAEGKLNDHFPLVWWQTGSGTQTNMNVNEVISNRAIEML GGELGSKIPVHPNDHVN<br>KSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQIIKIGRTHQTDAV<br>PLTLGQEFSGYVQVKYAMTRIKAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKV<br>AALTGLPFVTAPNKFEL AAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSLG<br>ELILPENEPGSSIMPGKVNPTQCEAMTMVAAQVMGN HVAVTVGGSNGHFELNVFK<br>PMMIKNVLHSARLLGDASVSFTENCVVGIQANTERINKLMNESLMLVTALNPHIGY D<br>KAAKIAKTAHKNGSTLKETAIELGYLTAEQFDEWVKPKDMLGPK |
| <b>Purity</b>           | >90% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | FH fumarate hydratase [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                               |
| <b>Official Symbol</b>     | FH                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | FH; fumarate hydratase; fumarate hydratase, mitochondrial; fumarase; MCL; LRCC; HLRCC; MCUL1;                                                                                                                                                                                                                                                                        |
| <b>Gene ID</b>             | 2271                                                                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_000143                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_000134                                                                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                 | 136850                                                                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>          | P07954                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 1q42.1                                                                                                                                                                                                                                                                                                                                                               |
| <b>Pathway</b>             | 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 => oxaloacetate, conserved biosystem; Citric acid cycle (TCA cycle), organism-specific biosystem; |
| <b>Function</b>            | fumarate hydratase activity; lyase activity;                                                                                                                                                                                                                                                                                                                         |

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