

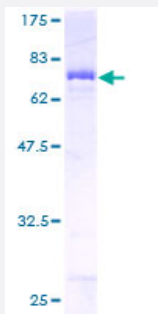
Full-Length

FH (Human) Recombinant Protein (P01)

Catalog # H00002271-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FH full-length ORF (AAH03108, 33 a.a. - 510 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

VPSFWPPNAARMASQNSFRIEYDTFGELKVPNDKYYGAQTVRSTMNFKIGGVTERMPTPVIKAFGI
LKRAAAEVNQDYGLDPKIANAIMKAADEVAEGKLNDFPLVVWQTGSGTQTNMNVNEVISNRAIE
MLGGELGSKIPVHPNDHVNKSQSSNDTFPTAMHIAAAIEVHEVLLPGLQKLHDALDAKSKEFAQIIK
IGRHTQDAVPLTLGQEFSGYVQQVKYAMTRIKAAAMPRIYELAAGGTAVGTGLNTRIGFAEKVAAKV
AALTGLPFVTAPNKFEEALAAHDALVELSGAMNTTACSLMKIANDIRFLGSGPRSGLGELILPENEP
GSSIMPGKVNPTQCEAMTMVAAQVMGNHVAVTVGGSNGHFELNVFKPMMIKNVLHSARLLGDA
SVSFTENCVVGIQANTERINKLMNESLMLVTALNPHIGYDKAAKIAKTAHNGSTLKETAIELGYLTA
EQFDEWVKPKDMLGPK

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.32

Interspecies Antigen Sequence

Mouse (96); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — FH

Entrez GeneID	2271
GeneBank Accession#	BC003108
Protein Accession#	AAH03108
Gene Name	FH
Gene Alias	HLRCC, LRCC, MCL, MCUL1
Gene Description	fumarate hydratase
Omim ID	136850 150800 605839 606812
Gene Ontology	Hyperlink

Gene 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]
--------------	--

Other Designations	OTTHUMP00000037573 fumarase multiple hereditary cutaneous leiomyomata
--------------------	---

Publication Reference

- [Relationship between circulating tumor-associated autoantibodies and clinical outcomes in advanced-stage NSCLC patients receiving PD-1/-L1 directed immune checkpoint inhibition.](#)

Imad Tarhoni, Connor J Wakefield, Revathi Kollipara, Mary Jo Fidler, Marta Batus, Philip Bonomi, Jeffrey A Borgia.

Journal of Immunological Methods 2021 Jan; 490:112956.

Application: Conjugation, Human, Beads, Human serum

Pathway

- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Metabolic pathways](#)
- [Pathways in cancer](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)
- [Renal cell carcinoma](#)

Disease

- [Adrenal Gland Neoplasms](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Neoplasms](#)
- [Leiomyoma](#)
- [Leiomyomatosis](#)
- [Multiple Sclerosis](#)
- [Narcolepsy](#)

- [Paraganglioma](#)
- [Pheochromocytoma](#)
- [Prostatic Neoplasms](#)
- [Uterine Neoplasms](#)