abcam

## Product datasheet

# Recombinant Human FH/Fumarase protein ab82790

1 Image

### Description

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|---|---|
| **Product name** | Recombinant Human FH/Fumarase protein |
| **Purity** | > 95 % SDS-PAGE. |
| **Expression system** | Escherichia coli |
| **Protein length** | Full length protein |
| **Animal free** | No |
| **Nature** | Recombinant |
| **Species** | Human |
| **Sequence** | MASQNSFRIE YDTFGELKVP NDKYYGAQTV RSTMNFKIGG VTERMPTPVI KAFGILKRAA AEVNQDYGLD PKIANAIMKA ADEVAEGKLN DHFPLVVWQT GSGTQTNMNV NEVISNRAIE MLGGELGSKI PVHPNDHVNK SQSSNDTFPT AMHIAAAIEV HEVLLPGLQK LHDALDAKSK EFAQIIKIGR THTQDAVPLT LGQEFSGYVQ QVKYAMTRIK AAMPRIYELA AGGTAVGTGL NTRIGFAEKV AAKVAALTGL PFVTAPNKFE ALAAHDALVE LSGAMNTTAC SLMKIANDIR FLGSGPRSGL GELILPENEP GSSIMPGKVN PTQCEAMTMV AAQVMGNHVA VTVGGSNGHF ELNVFKPMMI KNVLHSARLL GDASVSFTEN CVVGIQANTE RINKLMNESL MLVTALNPHI GYDKAAKIAK TAHKNGSTLK ETAIELGYLT AEQFDEWVKP KDMLGPK |

### Specifications

Our **Abpromise guarantee** covers the use of **ab82790** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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|---|---|
| **Applications** | SDS-PAGE |
| **Form** | Liquid |
| **Additional notes** | Endotoxin Level: < 1.0 EU per 1µg of protein (determined by LAL method)<br>This product was previously labelled as FH |

## Preparation and Storage

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|---|---|
| **Stability and Storage** | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.<br>pH: 8.00<br>Constituent: 0.316% Tris HCl |

## General Info

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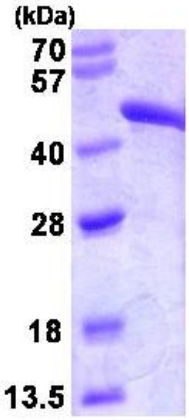
|---|---|
| **Function** | Also acts as a tumor suppressor. |
| **Pathway** | Carbohydrate metabolism; tricarboxylic acid cycle; (S)-malate from fumarate: step 1/1. |
| **Involvement in disease** | Defects in FH are the cause of fumarase deficiency (FHD) [MIM:606812]; also known as fumaricaciduria. FHD is characterized by progressive encephalopathy, developmental delay, hypotonia, cerebral atrophy and lactic and pyruvic acidemia.<br>Defects in FH are the cause of multiple cutaneous and uterine leiomyomata (MCUL1) [MIM:150800]. MCUL1 is an autosomal dominant condition in which affected individuals develop benign smooth muscle tumors (leiomyomata) of the skin. Affected females also usually develop leiomyomata of the uterus (fibroids).<br>Defects in FH are the cause of hereditary leiomyomatosis and renal cell cancer (HLRCC) [MIM:605839]. |
| **Sequence similarities** | Belongs to the class-II fumarase/aspartase family. Fumarase subfamily. |
| **Cellular localization** | Cytoplasm and Mitochondrion. |

## Images




SDS-PAGE - Recombinant Human FH/Fumarase protein (ab82790)

ab82790 on 15% SDS-PAGE (3µg)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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