

# Recombinant Full Length Human FTCD Protein, C-Flag-tagged

**Cat. No.** FTCD-1103HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human FTCD Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | The protein encoded by this gene is a bifunctional enzyme that channels 1-carbon units from formiminoglutamate, a metabolite of the histidine degradation pathway, to the folate pool. Mutations in this gene are associated with glutamate formiminotransferase deficiency. Alternatively spliced transcript variants have been found for this gene.                                                                                                                                               |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 58.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | MSQLVECVPNFSEGKNQEVIDAISGAITQTPGCVLLDVDAGPSTNRTVYTFVGPPEC<br>VVEGALNAARVAS RLIDMSRHQGEHPRMGALDVCFFIPVRGVSVDCEVLCAQAFG<br>QRLAEELDVPVYLYGEAARMDSRRTLPA IRAGEYEALPKKLQQADWAPDFGPSSFV<br>PSWGATATGARKFLIAFNINLLGTKEQAHRIALNLRQGRGK DQPGRLKKVQGIGW<br>YLDEKNLAQVSTNLLDFEVTALHTVYEETCREAQELSLPVVGSQVLVGLVPLKALLD A<br>AAFYCEKENLFILEEEQIRILVVSRLGLDSLCPFSPKERIIEYLVPERGPERGLGSKSL<br>RAFVGEVGAR SAAPGGGSVAAAAAAMGAALGSMVGLMTYGRRQFQSLDTTMRRL<br>IPPFREASAKLTTLVDADAEAFAYL EAMRLPKNTPEEKDRRTAALQEGLRRAVSV |

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LTLAETVASLWPALQELARCGNLACRSDLQVAAKALEMG  
VFGAYFNVLINLRDITDEAFKDQIHHRVSSLLQEAKTQAALVLDCLETRQETRTRPLE  
QKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                  |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Pathways</b> | Histidine metabolism, Metabolic pathways, One carbon pool by folate                                                                           |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| <b>Gene Name</b>       | FTCD formimidoyltransferase cyclodeaminase [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | FTCD                                                                |
| <b>Synonyms</b>        | LCHC1                                                               |
| <b>Gene ID</b>         | 10841                                                               |
| <b>mRNA Refseq</b>     | NM_006657.3                                                         |

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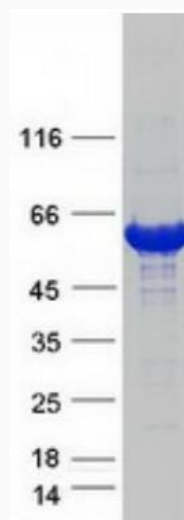
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**Protein Refseq** [NP\\_006648.1](#)

**MIM** [606806](#)

**UniProt ID** [O95954](#)



Coomassie blue staining of purified FTCD protein.

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