

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

**Cat. No.** FTO-330HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human FTO 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>      | This gene is a nuclear protein of the AlkB related non-haem iron and 2-oxoglutarate-dependent oxygenase superfamily but the exact physiological function of this gene is not known. Other non-heme iron enzymes function to reverse alkylated DNA and RNA damage by oxidative demethylation. Studies in mice and humans indicate a role in nervous and cardiovascular systems and a strong association with body mass index, obesity risk, and type 2 diabetes. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 58.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MKRTPTAEEEREREAKKLRLLEELEDTWLPYLTPKDDEFYQQWQLKYPKLILREASSV<br>SEELHKEVQEAFLLHKGCLFRDLVRIQGKDLLTPVSRILIGNPGCTYKYLNTRLFT<br>VPWPVKGSNIKHTAEIAAACETFLKLNDYLQIETIQALEELAAKEKANEDAVPLCMS<br>ADFPRVGMGSSYNGQDEVDIKSRAAYNVTLLNFMDPQKMPYLKEEYPFGMGKMA<br>VSWHHDENLVDRSAVAVYSYSCGPEEESEDDSHLEGRDPDIWHVGFKISWDIET<br>PGLAIPHLHQGDCYFMLDDLNATHQHCVLAGSQPRFSSTHRVAECSTGTLDYILQRC<br>QLALQNVCCDDVDNDDVSLKSFEPVLKQGEEIHNEVEFEWLRQFWFQGNRYRKCT                                 |

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DWWCQPMALQLEALWKKMEGVTVNAVLEH VKREGLPVEQRNEILTAILASLTARQNL  
 RREWHARCQSRIARTLPADQKPECRPYWEKDDASMLPFDLT  
 DIVSELRGQLLEAKPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Full Length</b>   | Full L.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                            |
|------------------------|----------------------------------------------------------------------------|
| <b>Gene Name</b>       | FTO FTO alpha-ketoglutarate dependent dioxygenase [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | FTO                                                                        |
| <b>Synonyms</b>        | GDFD; ALKBH9; BMIQ14                                                       |
| <b>Gene ID</b>         | 79068                                                                      |
| <b>mRNA Refseq</b>     | NM_001080432.3                                                             |
| <b>Protein Refseq</b>  | NP_001073901.1                                                             |

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MIM 610966

UniProt ID Q9C0B1



Coomassie blue staining of purified FTO protein.

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