

## Recombinant Human FTO protein, GST-tagged

**Cat. No.** FTO-3628H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human FTO protein(400-505 aa), fused to GST tag, was expressed in E. coli.                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 400-505 aa                                                                                                                                                                                                                                                                   |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 100mM GSH. |
| <b>AA Sequence</b>      | MAQLEALWKKMEGVTVNAVLHEVKREGLPVEQRNEILTALASLTARQNLRRREWHAR<br>CQSRIARTLPADQKPECRPYWEKDDASMPPLPFDLTDIVSELRGQLLEAKP                                                                                                                                                             |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                     |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.                                         |
| <b>Reconstitution</b>   | Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.<br>Reconstitution with 200 µl 50% glycerol solution is recommended for longer term                                                                                                                |

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storage.

## GENE INFORMATION

|                 |                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | FTO fat mass and obesity associated [ Homo sapiens ]                                                                                                             |
| Official Symbol | FTO                                                                                                                                                              |
| Synonyms        | FTO; fat mass and obesity associated; alpha-ketoglutarate-dependent dioxygenase<br>FTO; KIAA1752; MGC5149; protein fto; fat mass and obesity-associated protein; |
| Gene ID         | 79068                                                                                                                                                            |
| mRNA Refseq     | NM_001080432                                                                                                                                                     |
| Protein Refseq  | NP_001073901                                                                                                                                                     |
| MIM             | 610966                                                                                                                                                           |
| UniProt ID      | Q9C0B1                                                                                                                                                           |

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