

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

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

SPECIFICATION

Product Overview	Recombinant Full Length Human FTO Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	58.1 kDa
AA Sequence	MKRTPTAEEREREAKKLRLLEELEDTWLPYLTPKDDEFYQQWQLKYPKLILREASSV SEELHKEVQEAFLLHKGCLFRDLVRIQGKDLLTPVSRILIGNPGCTYKYLNTRLFT VPWPVKGSNIKHTAEIAAACETFLKLNDYLIQETIQALEELAAKEKANEDAVPLCMS ADFPVRVGMGSSYNGQDEVDIKSRAAYNVTLLNFMDPQKMPYLKEEYPFGMGKMA VSWHHDENLVDRSAVAVYSYSCGPEEESEDDSHLEGRDPDIWHVGFKISWDIET PGLAIPHLHQGDCYFMLDDLNATHQHCVLAGSQPRFSSTHRVAECSTGTLDYILQRC QLALQNVCCDDVDNDDVSLKSFEPVLKQGEEIHNEVEFEWLRQFWFQGNRYRKCT

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DWWCQPMALQLEALWKKMEGVTVNAVLEH VKREGLPVEQRNEILTALASLTARQNL
 RREWHARCQSRIARTLPADQKPECRPYWEKDDASMLPFDLT
 DIVSELRGQLLEAKPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

GENE INFORMATION

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

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MIM 610966

UniProt ID Q9C0B1



Coomassie blue staining of purified FTO protein.

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