

Recombinant Human FTO, GST-tagged

Cat. No. FTO-118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FTO full-length ORF (AAH01284.1, 1 a.a. - 139 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	41.8 kDa
AA Sequence	MGHPRAIQPSVFFSPYDVHFLLYPIRCPYLKIGRFHIKLGHLFLFSFLFFFETQSHS VTRLECSGTISAHCNL CLPGSSNSPASASQVAGTTGTCHHAQLIFVFLAEMGFHHIG QDGLDLNLVIHPPRSPKALGLQA
Applications	ELISA; WB-Re; AP; Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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GENE INFORMATION

Gene Name	FTO fat mass and obesity associated [Homo sapiens (human)]
Official Symbol	FTO
Synonyms	FTO; ALKBH9; fat mass and obesity associated; alpha-ketoglutarate-dependent dioxygenase FTO; protein fto; AlkB homolog 9; fat mass and obesity-associated protein
Gene ID	79068
mRNA Refseq	NM_001080432
Protein Refseq	NP_001073901
MIM	610966
UniProt ID	Q9C0B1
Chromosome Location	16q12.2
Function	DNA-N1-methyladenine dioxygenase activity; ferrous iron binding; oxidative DNA demethylase activity

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