

Active Recombinant Full Length Human FTO Protein, FLAG tagged

Cat. No. FTO-05HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant FTO protein was expressed in a Baculovirus expression system as the full length protein (accession number XP_011521615.1) with an N-terminal FLAG-Tag.
Species	Human
Source	Insect cells
ProteinLength	1-505 aa
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage Buffer	25 mM HEPES pH 7.5, 300 mM NaCl, 5% glycerol, 0.04% Triton X-1000.2 mM TCEP.
Applications	Recombinant FTO protein is suitable for use in enzyme kinetics, inhibitor screening, and selectivity profiling. 3 μ M m6A ssDNA oligos (DNA sequence: 5'-GTTGCCTGTTCTGTTGG/m6A/ CTTGCCTGT-3') were incubated with FTO protein in reaction buffer including 50 mM HEPES pH 7.5, 100 μ M 2OG, 100 μ M Ascorbate, 50 μ M (NH ₄) ₂ Fe(SO ₄) ₂ ·6H ₂ O and 1 mM TCEP for 2 hours at room temperature. Dot-Blot was used for activity detection.

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Concentration 0.3 µg/µL

GENE INFORMATION

Official Symbol [FTO](#)

Synonyms FTO; fat mass and obesity associated; alpha-ketoglutarate-dependent dioxygenase
FTO; KIAA1752; MGC5149; protein fto; fat mass and obesity-associated protein

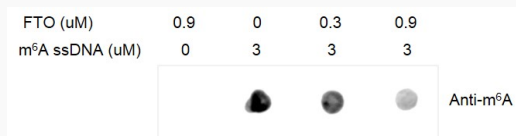
Gene ID [79068](#)

mRNA Refseq [NM_001080432](#)

Protein Refseq [NP_001073901](#)

MIM [610966](#)

UniProt ID [Q9C0B1](#)



Activity

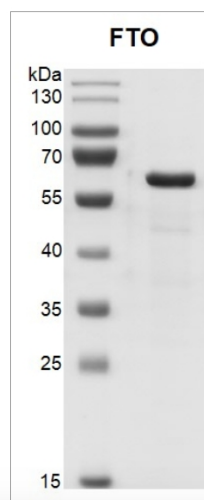
Recombinant FTO protein activity. 3 µM m⁶A ssDNA oligos (sequence: 5'-GTTGCCTGTTTCGTGTTGG/m⁶A/CTTGCCTGT-3') were incubated with FTO protein in reaction buffer for 2 hr. at RT. Reaction products spotted onto nylon membrane were detected with m⁶A antibody. FTO alone was used as negative control.

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SDS-PAGE



Recombinant FTO protein, SDS-PAGE gel. Recombinant FTO protein was run on an 8% SDS-PAGE gel and stained with Coomassie Blue. MW: 60.4 kDa Purity: > 95%

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