

Recombinant Rat Fto, His-tagged

Cat. No. Fto-273R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat FTO (aa 2-502) is fused at the N-terminus to a His-tag.
Species	Rat
Source	E.coli
ProteinLength	2-502 a.a.
Description	FTO (Fat mass-and obesity-associated gene) is the responsible gene for mouse 'fused toes' mutation. An association between FTO genotype and type 2 diabetes has been confirmed. The presence of the FTO rs9939609 A-allele was found to be positively correlated with other symptoms of the metabolic syndrome, including higher fasting insulin, glucose, triglycerides, and lower HDL-cholesterol.
Form	Liquid. 0.2µm-filtered solution in 50mM TRIS-Cl, pH 8.2, containing 150mM NaCl, 1mM DTT.
Molecular Mass	~55kDa (SDS-PAGE)
Purity	Purified using Ni-NTA column and FPLC.
Stability	Working aliquots are stable for up to 3 months when stored at -20°C.
Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. After opening, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. For maximum product recovery

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after thawing, centrifuge the vial before opening the cap.

GENE INFORMATION

Gene Name	Fto fat mass and obesity associated [<i>Rattus norvegicus</i>]
Official Symbol	Fto
Synonyms	FTO; fat mass and obesity associated; alpha-ketoglutarate-dependent dioxygenase FTO; protein fto; fat mass and obesity-associated protein; RGD1305121;
Gene ID	291905
mRNA Refseq	NM_001039713
Protein Refseq	NP_001034802
Function	DNA-N1-methyladenine dioxygenase activity; DNA-N1-methyladenine dioxygenase activity; ferrous iron binding; ferrous iron binding; metal ion binding; molecular_function; oxidative DNA demethylase activity; oxidative DNA demethylase activity; oxidative RNA demethylase activity; oxidative RNA demethylase activity; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen;

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