



Recombinant Human Alpha-ketoglutarate-dependent dioxygenase FTO (FTO)

Product Code	CSB-EP880154HU-B
Abbreviation	FTO
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9C0B1
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MKRTPTAEER EREAKKLRLLE ELEDTWLPY LTPKDDEFYQ QWQLKYPKLI LREASSVSEE LHKEVQEAFLLH KHGCLFR DLVRIQGGKDL LTPVSRILIG NPGCTYKYLNTRLFTVPWPV KGSNIKHTEA EIAAACETFL KLNDYLQIET IQALEELAAK EKANEDAVPL CMSADFPRVG MGSSYNGQDE VDIKSRAAYN VTLNFMNDPQ KMPYLKEEPY FGMGKMAVSW HHDENLVDRS AVAVYSYSCE GPEEESEDDS HLEGRDPDIW HVGFKISWDI ETPGLAIPHL QGDCYFMLDD LNATHQHCVL AGSQRFSST HRVAECSTGT LDYILQRCQL ALQNVCDVD NDDVSLKSFE PAVLKQGEI HNEVEFEWLR QFWFQGNRYR KCTDWWCQPM AQLEALWKKM EGVTVNAVLE VKREGLPVEQ RNEILTALA SLTARQNLRR EWHARCQSRI ARTLPADQKP ECRPYWEKDD ASMPLPFDLT DIVSELRGQL LEAKP
Source	E.coli
Target Names	FTO
Protein Names	Recommended name: Alpha-ketoglutarate-dependent dioxygenase FTO EC=1.14.11.- Alternative name(s): Fat mass and obesity-associated protein
Expression Region	1-505
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	The exact function of this gene is not know. Studies in mice suggest that it may be involved in nucleic acid demethylation, and that its mRNA level is regulated by feeding and fasting. Genomewide association studies of type 2 diabetes indicate this gene as a diabetes susceptibility locus. Mutation in this gene has been associated with growth retardation, developmental delay, coarse facies, and early death.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.