

Product datasheet for PH315889

FTO (NM_001080432) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FTO MS Standard C13 and N15-labeled recombinant protein (NP_001073901)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215889
Predicted MW:	58.1 kDa
Protein Sequence:	>RC215889 representing NM_001080432 Red=Cloning site Green=Tags(s)

MKRTPTAEEREREAKKLRLLLEELEDTWLPYLTPKDDEFYQQWQLKYPKILREASSVSEELHKEVQEAFLLHKKHGCLFRDLVRIQGDLLTPVSRILIGNPGCTYKYLNTRLFTVPWPVKGSNIKHTAEIAAACETFLKLN DY LQIETIQALEELA AKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAAYNVTLLNFMDPQKMPYLKEEPYFGMGKMAVSWHHDENLVDRSAVAVYSYSCGPEEESEDDSHLEGRDPDIWHVGFKISWDIETPGLA IPLHQDCYFMLDDL NATHQHCVL AGSQPRFSSTHRVAECSTGTLDYILQRCQLALQNVCDVDNDDVSLKSFEPAVLKQGE EIHNEVEFEWLRQFWFQGNRYRKCTDWWCQPMALWKKMEGVTNAVLHEVKREGLPVEQRNEILTALASLTARQNL RREWHARCQSRIARTLPADQKPECRPYWEKDDASMLPFDLTDIVSELRGQLLEAKP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001073901
RefSeq Size:	4294
RefSeq ORF:	1515



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Synonyms: ALKBH9; BMIQ14; GDFD

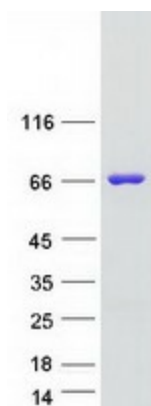
Locus ID: 79068

UniProt ID: [Q9C0B1](#), [B3KU60](#), [Q99770](#)

Cytogenetics: 16q12.2

Summary: 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. [provided by RefSeq, Jul 2011]

Product images:



Coomassie blue staining of purified FTO protein (Cat# [TP315889]). The protein was produced from HEK293T cells transfected with FTO cDNA clone (Cat# [RC215889]) using MegaTran 2.0 (Cat# [TT210002]).