

Recombinant human BFIT, His-tagged

Cat. No. BFIT-2436H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BFIT protein, fused to His-tag at N-terminus, was expressed in E.coli
Species	Human
Source	E.coli
Description	BFIT is a member of the acyl-CoA thioesterase family which catalyse the conversion of activated fatty acids to the corresponding non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and repressed by warm temperatures. Higher levels of expression of the mouse homolog has been found in obesity-resistant mice compared with obesity-prone mice, suggesting a role of acyl-CoA thioesterase 11 in obesity. The protein has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	29.9kDa (268aa)
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSNRTS RKSALRAGND SAMADGEGYR NPTEVQMSQL VLPCHTNQRG ELSVGQLLKWIDTTACLSAE RHAGCPCVTA SMDDIYFEHT ISVGQVVNIK AKVNRAFNSS MEVGIQVASE DLCSEKQWNV CKALATFVAR REITKVCLKQ ITPRTEEEKM EHSVAAERRR MRLVYADTIK DLLANCAIQG DLESRDCSR M VPAEKTRVES VELVLPphan

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	HQGNTFGGQI MAWMENVA
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	ACOT11?acyl-CoA thioesterase 11 [?Homo sapiens?(human)]
Official Symbol	ACOT11
Synonyms	ACOT11; BFIT; THEA; THEM1; STARD14; acyl-CoA thioesterase 11; acyl-coenzyme A thioesterase 11; START domain containing 14; acyl-CoA thioester hydrolase 11; adipose-associated thioesterase; brown fat-inducible thioesterase; thioesterase, adipose associated; thioesterase superfamily member 1; StAR-related lipid transfer (START) domain containing 14; EC 3.1.2.-
Gene ID	26027
mRNA Refseq	NM_015547
Protein Refseq	NP_056362
MIM	606803

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UniProt ID	Q8WXI4
Chromosome Location	1p32.3
Function	acyl-CoA hydrolase activity; carboxylesterase activity

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