
Product Data Sheet

Product Name: ACOT11 Human
 Cat. No.: GP21338
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms
 Acyl-CoA Thioesterase 11; StAR-Related Lipid Transfer (START) Domain Containing 14; Thioesterase; Adipose Associated; Acyl-CoA Thioester Hydrolase 11; Adipose-Associated Thioesterase; Brown Fat-Inducible Thioesterase; Thioesterase Superfamily Member 1; START Domain Containing 14; Acyl-Coenzyme A Thioesterase 11; STARD14; THEM1; THEA; BFIT; BFIT1; BFIT2; KIAA0707; EC 3.1.2.1.

Amino Acid Sequence
 MRGSHHHHHH GMASMTGGQ MGRDLYDDDD KDRWGSNRTS
 RKSALRAGND SAMADGEGYR NPTEVQMSQL VLPCHTNQRG ELSVGQLLKW
 IDTTACLSAE RHAGPCVTA SMDDIYFEHT ISVGQVNIK AKVNRAFNSS
 MEVGIVASE DLCSEKQWNV CKALATFVAR REITKVKLKQ ITPRTEEEKM
 EHSVAAERRR MRLVYADTIK DLLANCAIQG DLESRDCSR M VPAEKTRVES
 VELVLPPHAN HQGNTFGGQI MAWMENVA

Formulation
 ACOT11 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.4M Urea and 10% glycerol.

Introduction

ACOT11 belongs to the acyl-CoA thioesterase family which catalyses the transformation of activated fatty acids to the equivalent non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and inhibited by high temperatures. Obesity-resistant mice demonstrated High levels of expression compared with obesity-prone mice, indicating BFIT takes part in acyl-CoA thioesterase 11 in obesity. BFIT has acyl-CoA thioesterase activity towards medium (C12) and long-chain (C18) fatty acyl-CoA substrates.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ACOT11 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain topological domain containing 268 amino acids (19-250 a.a) and having a molecular mass of 29.9kDa. ACOT11 is fused to a 36 amino acid His-tag at N-terminus.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA