
Product Data Sheet

Product Name: ACOT8 Human

Cat. No.: GP21337

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acyl-coenzyme A thioesterase 8; hACTE-III; HNAACTE; the; PTE-1; PTE-2; PTE1; PTE2; Acyl-CoA thioesterase 8; Choloyl-coenzyme A thioesterase; HIV-Nef-associated acyl-CoA thioesterase; PTE-2; Peroxisomal acyl-coenzyme A thioester hydrolase 1; Peroxisomal long-chain acyl-CoA thioesterase 1 Thioesterase II; ACTEIII; hACTEIII; the; ACOT8.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSPPQAP EDGQGCGRG DPPGDRLSVL VTTVLNLEPL DEDLFRGRHY WVPAKRLFGG QIVGQALVAA AKSVSEDVHV HSLHCYFVRA GDPKLPVLYQ VERTRTGSSF SVRSVKAVQH GKPIFICQAS FQQAQPSMQ HQFSMPTVPP PEELLDCELT IDQYLRDPNL QKRYPLALNR IAAQEVPIEI KPVNPSPLSQ LQRMEPKQMF WVRARGYIGE GDMKMHCCVA AYISDYAFLG TALLPHQWQH KVHFMVSLDH SMWFHAPFRA DHWMLYECES PWAGGSRGLV HGRLWRQDGV LAVTCAQEGV IRVKPQVSES KL.		
Formulation	The ACOT8 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 40% glycerol and 2mM DTT.		

Introduction

Acyl-CoA Thioesterase 8 (ACOT8) is a group of enzymes which catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), granting the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH. ACOT8 mediate Nef-induced down-regulation of CD4. ACOT8 contends with BAAT (Bile acid CoA: amino acid N-acyltransferase) for bile acid-CoA substrate (such as chenodeoxycholoyl-CoA). ACOT8 prefers medium-length fatty acyl-CoAs.

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.

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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

ACOT8 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 342 amino acids (1-319) and having a molecular mass of 38.3kDa. ACOT8 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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