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**Product Data Sheet**


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Product Name: ACOT7 Human

Cat. No.: GP21340

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytosolic acyl coenzyme A thioester hydrolase; Acyl-CoA thioesterase 7; Brain acyl-CoA hydrolase; BACH; CTE-IIa; CTE-II; Long chain acyl-CoA thioester hydrolase; ACOT7; ACT; ACH1; LACH; LACH1; hBACH; RP1-120G22.10.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MARPGLIHSA PGLPDTCALL QPPAASAAAA PSMSGPDVET PSAIQICRIM RPDDANVAGN VHGGTILKMI EEAGAIISTR HCNSQNGERC VAALARVERT DFLSPMCIGE VAHVSAEITY TSKHSVEVQV NVMSENILTG AKKLTNKATL WYVPLSLKNV DKVLEVPPVW YSRQEQUEEG RKRYEAQKLE RMETKWRNGD IVQPVLNPEP NTVSYSQSSL IHLVGPSTCT LHGFVHGGVT MKLMDEVAGI VAARHCKTNI VTASVDAINF HDKIRKGCVI TISGRMTFTS NKSMEIEVLV DADPVVDSSQ KRYRAASAFF TYVSLSQEGR SLPVPQLVPE TEDEKRFEE GKGRYLQMKR KRQGHAEPQP.		
Formulation	The ACOT7 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 1mM DTT and 0.15M NaCl.		

**Introduction**

Acyl-CoA Thioesterase 7 (ACOT7) belongs to the acyl coenzyme family. ACOT7 hydrolyzes the CoA thioester of palmitoyl-CoA and other long-chain fatty acids. Decreased expression of the ACOT7 protein may be linked to mesial temporal lobe epilepsy.

**Stability**

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

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

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

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### Background

ACOT7 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 390 amino acids (1-370) and having a molecular mass of 42.6kDa. ACOT7 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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