

# Product information



## ACAT2, 1-397 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0634

**Full Name:** Acetyl-CoA acetyltransferase, cytosolic

**NCBI Accession No.:** NP\_005882

**Synonyms:** ACTL

**Description:** ACAT2 is an enzyme involved in lipid metabolism. It participates in lipoprotein assembly, catalyzing cholesterol esterification in mammalian cells. ACAT2 is an integral membrane protein that localizes to the endoplasmic reticulum of human intestinal cells. ACAT2 deficiency contributes to severe mental retardation and hypotonus. Recombinant human ACAT2 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

<p><b>Form:</b> Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.1M NaCl, 1mM DTT, 10% glycerol</p> <p><b>Molecular Weight:</b> 45.4 kDa (433aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 95% by SDS - PAGE</p> <p><b>Concentration:</b> 1 mg/ml (determined by Bradford assay)</p>	<p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSNMNAG SDPVVIVSAA RTIIGSFNGA LAAVPVQDLG STVIKEVLKR ATVAPEDVSE VIFGHVLAAG CGQNPVRQAS VGAGIPYSVP AWSCQMICGS GLKAVCLAVQ SIGIGDSSIV VAGGMENMSK APHLAYLRTG VKIGEMPLTD SILCDGLTDA FHNCHMGITA ENVAKKWQVS REDQDKVAVL SQNRTENAQK AGHFDKEIVP VLVSTRKGLI EVKTDEFPRH GSNIEAMSKL KPYFLTDGTG TVTPANASGI NDGAAAVVLM KKSEADKRGL TPLARIVSWS QVGVEPSIMG IGPIPAICKQA VTKAGWSLED VDIFEINEAF AAVSAAIVKE LGLNPEKVN I EGGAIALGHP LGASGRILV TLLHTLERMG RSRGVAALCI GGGMGIAMCV QRE</p>	

### General references:

Alger HM., *et al.* (2010) *J Biol Chem.* 285(19):14267-74.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

# Product information

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Bryleva EY., *et al.* (2010) *Proc Natl Acad Sci U S A.* 107(7):3081-6.

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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