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## Product Data Sheet

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Product Name: ACAT2 Human

Cat. No.: GP21335

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Acetyl-CoA acetyltransferase cytosolic; Cytosolic acetoacetyl-CoA thiolase; ACAT2; Acetyl CoA transferase-like protein; ACAT-2.		
Amino Acid Sequence	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMNAG  SDPVVIVSAA RTIIGSFNGA LAAVPVQDLG STVIKEVLKR ATVAPEDVSE  VIFGHVLAAG CGQNPVRQAS VGAGIPYSVP AWSCQMICGS GLKAVCLAVQ  SIGIGDSSIV VAGGMENMSK APHLAYLRTG VKIGEMPLTD SILCDGLTDA  FHNCHMGITA ENVAKKWQVS REDQDKVAVL SQNRTEAQAQ AGHFDKEIVP  VLVSTRKGLI EVKTDEFPRH GSNIEAMSKL KPYFLTDGTG TVTPANASGI  NDGAAAVVLM KKSEADKRGL TPLARIVSWS QVGVPEPSIMG IGPIPAIKQA  VTKAGWSLED VDIFEINEAF AAVSAAIVKE LGLNPEKVNI EGGAIALGHP  LGASGCRILV TLLHTLERMG RSRGVAALCI GGGMGIAMCV QR.</p>		
Formulation	ACAT2 Human solution containing 20mM Tris pH-8, 0.1M NaCl, 1mM DTT and 20% glycerol.		

**Introduction**

ACAT2 enzyme participates in lipid metabolism. ACAT2 takes part 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.

**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.

**Background**

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

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ACAT2 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 433 amino acids (1-397 a.a.) and having a molecular mass of 45.4 kDa. The ACAT2 is fused to 36 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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