

Product Data Sheet

□ Cat # RP-381

8 Recombinant Human Acetyl-Coenzyme A acetyltransferase 2

Size: □ 10 ug

Acetyl-Coenzyme A acetyltransferase 2 is an enzyme involved in lipid metabolism. Reported patients with ACAT2 deficiency have shown severe mental retardation and hypotonus. The ACAT2 gene shows complementary overlapping with the 3 prime region of the TCP1 gene in both mouse and human. These genes are encoded on opposite strands of DNA, as well as in opposite transcriptional orientation.

**Source:** *Escherichia Coli*. Acetyl-Coenzyme A acetyltransferase 2 produced Human Recombinant in E.Coli is a non-glycosylated, polypeptide chain containing amino acids 1-397 and having a total molecular mass of 41.3 kda. ACAT2 contains T7 tag at N-terminus. ACAT-2 is purified by proprietary chromatographic techniques. Acetyl-CoA acetyltransferase cytosolic at a concentration of 0.1mg/ml in 10mM Tris, pH 8.0, 0.1% Triton X-100 and 0.002% NaN<sub>3</sub>.

**Applications and Suggested Dilutions:** • ELISA • MS • Inhibition Assays • Western Blotting Greater than 95.0% as determined by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** ACAT2 although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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