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ACADS Human

Catalog #:ENPS-474

For research use only.

Description:ACADS Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 409 amino acids (25-412 a.a.) and having a molecular mass of 44 kDa. The ACADS protein is fused to a 20 amino acid His Tag at N-terminus and purified by standard chromatogrpahy techniques.

Synonyms:ACAD3, SCAD, EC 1.3.99.2, Short-chain specific acyl-CoA dehydrogenase, mitochondrial, Butyryl-CoA dehydrogenase, ACADS.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MLHTIYQSVE LPETHQMLLQ TCRDFAEKEL FPIAAQVDKE HLFPAAQVKK MGGLGLLAMD VPEELGGAGL DYLAYAIAME EISRGCASTG VIMSVNNSLY LGPILKFGSK EQKQAWVTPF TSGDKIGCFA LSEPGNGSDA GAASTTARAE GDSWVLNGTK AWITNAWEAS AAVVFASTDR ALQNKSISAF LVPMPTPGLT LGKKEDKLGI RG

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The protein contains 20mM Tris buffer pH-8, 1mM DTT, 20% glycerol and 100mM NaCl.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
ACADS is a tetrameric mitochondrial flavoprotein, which is part of the acyl-CoA dehydrogenase family. ACADS catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. Mutations in ACADS have been associated with Short Chain Acyl-CoA Dehydrogenase Deficiency.

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