

Product: ACADS (Acyl-Coenzyme A dehydrogenase, 25-412aa, His-tagged)
Catalog #: 01-1752-S
Amount: 10 µg

DESCRIPTION: ACADS (Acyl-Coenzyme A dehydrogenase), also known as SCAD or ACAD3, is a tetrameric mitochondrial flavoprotein, which is a member of the acyl-CoA dehydrogenase family. This enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Mutations of ACADS have been associated with fatty acid oxidation defects and metabolic diseases such as short-chain acyl-CoA dehydrogenase deficiency (SCAD deficiency).

NCBI Accession No.: AAH25963

Full name: Acyl-Coenzyme A dehydrogenase

Synonyms: ACAD3, SCAD

AA Sequence:

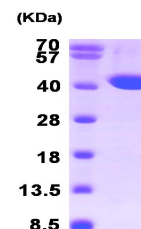
MGSSHHHHHH SGLVPRGSH MLHTIYQSVE LPETHQMLLQ TCRDFAEKEL FPIAAQVDKE
 HLFPAAQVKK MGGLLLAMD VPEELGGAGL DYLAYAIAME EISRGCSTG VIMSVNNSLY
 LGPILKFGSK EQKQAVVTPF TSGDKIGCFA LSEPGNGSDA GAASTTARAE GDSWVLNGTK
 AWITNAWEAS AAVVFASTDR ALQNKSSISAF LVPMPPTPGLT LGKKEDKLG I RGSSTANLIF
 EDCRIPKDSI LGEPGMGFKI AMQTLDMGRI GIASQALGIA QTALDCAVNY AENRMAFGAP
 LTKLQVIQFK LADMALALES ARLLTWRAAM LKDNKKPFIK EAAMAKLAAS EAATAISHQA
 IQILGGMGYV TEMPAERHYR DARITEIYEG TSEIQLVIA GHLLRSYRS

SOURCE: Recombinant, His-tagged (N), *E. coli* expression system
MOLECULAR WEIGHT: 44.0 kDa (409aa)
PURITY: > 95% by SDS PAGE
FORM: Purified, in 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1 M Nacl, and 20% glycerol
ENDOTOXIN:
CONCENTRATION: 0.5 mg/ml (Bradford Assay)
STORAGE: -20°C (aliquot), Avoid repeated freeze and thaw cycles

REFERENCE:

McAndrew RP., et al. (2008) J Biol Chem. 283(14):9435-9443

Tafti M., et al. (2003) Nat Genet. 34(3):320-325



15% SDS-PAGE (3ug)

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