

32-8162: Recombinant Human ACADM/MCAD (N-6His)

Gene : ACADM

Gene ID : 34

Uniprot ID : P11310

Description

Source: E. coli.

MW :45.9kD.

Recombinant Human ACADM is produced by our E.coli expression system and the target gene encoding Lys26-Asn421 is expressed with a 6His tag at the N-terminus. Medium-Chain Specific Acyl-CoA Dehydrogenase (ACADM) is a mitochondrial fatty acid beta-oxidation that belongs to the acyl-CoA dehydrogenase family. ACADM is a homotetramer enzyme that catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. ACADM is specific for acyl chain lengths of 4 to 16. It is essential for converting these particular fatty acids to energy, especially during fasting periods. Defects in ACADM cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death.

Product Info

Amount : 10 µg / 50 µg

Content : Supplied as a 0.2 µm filtered solution of 20mM Tris, 0.1M NaCl, 20% Glycerol, pH 8.5.

Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid : MGSSHHHHHSSGLVPRGSHMKANRQREPGLGFSFEFEQQKEFQATARKFAREEIIPVAAEYDKTGEYPVPLI
RRAWELGLMNTHIPENCGGLGLGTFDACLISEELAYGCTGVQTAIEGNSLGQMPIIIAGNDQKKKYLGRMTEE
PLMCAYCVTEPGAGSDVAGIKTKAEKKGDEYIINGQKMWITNGGKANWYFLLARSDPDPKAPANKAFTGFIVEA
DTPGIQIGRKELNMGQRCSDRGIVFEDVKVPKENVLIGDGAGFKVAMGAFDKTRPVVAAGAVGLAQRALDEA
TKYALERKTFGKLLVEHQAISFMLAEMAMKVELARMSYQRAAWEVDSGRRNTYYASIAKAFAGDIANQLATDA
VQILGGNGFNTEYPVEKLMRDAKIYQIYEGTSQIQLIVAREHIDKYKN

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.