

Recombinant Human ACOX3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ACOX3-5020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ACOX3 MS Standard C13 and N15-labeled recombinant protein (NP_003492) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Acyl-Coenzyme A oxidase 3 also know as pristanoyl -CoA oxidase (ACOX3)is involved in the desaturation of 2-methyl branched fatty acids in peroxisomes. Unlike the rat homolog, the human gene is expressed in very low amounts in liver such that its mRNA was undetectable by routine Northern-blot analysis or its product by immunoblotting or by enzyme activity measurements. However the human cDNA encoding a 700 amino acid protein with a peroxisomal targeting C-terminal tripeptide S-K-L was isolated and is thought to be expressed under special conditions such as specific developmental stages or in a tissue specific manner in tissues that have not yet been examined.
Molecular Mass	77.4 kDa
AA Sequence	MASTVEGGDTALLPEFPRGPLDAYRARASFSWKELALFTEGEGMLRFKKTIFSALEN DPLFARSPGADLSLEKYRELNFLRCKRIFEYDFLSVEDMFKSPLKVPALIQCLGMYDS SLAAKYLLHSLVFGSAVYSSGSERHLTYIQKIFRMEIFGCFALTELSHGSNTKAIRTTA HYDPATEEFIIHSPDFEAAKFWVGNMGKTATHAVVFAKLCVPGDQCHGLHPFIVQIR

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DPKTLLPMPGVMVGDIGKKLGQNGLDNGFAMFHKVRVPRQSLLNRMGDVTPEGTY
 VSPFKDVRQRFGLASLGLSSGRVSIVSLAILNLKLAVALRFSATTRQFGPTEEEEIP
 VLEYPMQQWRLLPYLAAYALDHFSKSLFLDLVELQRGLASGDRSARQAELGREIH
 ALASASKPLASWTTQQGIQECREACGGHGYLAMNRLGVLRDDNDPNCTYEGDNNI
 LLQQTSNYLLGLLAHQVHDGACFRSPLKSVDFLDAYPGILDQKFEVSSVADCLDSAV
 ALAAYKWLVCYLLRETYQKLNQEKRSRSSDFEARNKCQVSHGRPLALAFVELTVVQ
 RFHEHVHQPSVPPSLRAVLGRLSALYALWSLSRHAALLYRGGYFSGEQAGEVLESA
 VLALCSQLKDDAVALVDVIAPPDFVLDSPIGRADGELYKNLWGAVLQESKVLERASW
 WPEFSVNKPVIGSLKSKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ACOX3 acyl-CoA oxidase 3, pristanoyl [Homo sapiens (human)]

Official Symbol ACOX3

Synonyms ACOX3; acyl-CoA oxidase 3, pristanoyl; acyl Coenzyme A oxidase 3, pristanoyl; peroxisomal acyl-coenzyme A oxidase 3; BRCAcox; pristanoyl-CoA oxidase; branched-chain acyl-CoA oxidase; acyl-Coenzyme A oxidase 3, pristanoyl;

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Gene ID	8310
mRNA Refseq	NM_003501
Protein Refseq	NP_003492
MIM	603402
UniProt ID	O15254
SDS-PAGE	