

## Product datasheet for PH322515

### ACOX3 (NM\_003501) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ACOX3 MS Standard C13 and N15-labeled recombinant protein (NP_003492)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222515
Predicted MW:	77.4 kDa
Protein Sequence:	>RC222515 representing NM_003501 Red=Cloning site Green=Tags(s)

MASTVEGGDTALLPEFPRGPLDAYRARASFSWKELALFTEGEGMLRFKKTIFSALENDPLFARSPGADLS  
LEKYRELNFLRCKRIFEYDFLSVEDMFKSPLKVPALIQCLGMYDSSLAAYLLHSLVFGSAVYSSGSERH  
LTYIQKIFRMEIFGCFALTELSHGSNTKAIRTTAHYDPATEEFIIHSPDFEAAKFWGNMGKTATHAVVF  
AKLCVPGDQCHGLHPFIVQIRDPKTLMPGVMVGDIGKKLGQNGLDNGFAMFHKVRVPRQSLNRMGDV  
TPEGTYVSPFKDVRQRFGASLGSLSGRVSIIVSLAILNLKLAVAIARFSATRRQFGPTEEEEIPVLEYP  
MQQWRLPYLAAYVALDHFSSKSLFDLVELQRGLASGDRSARQAELGREIHALASASKPLASWTTQQGIQ  
ECREACGGHGYLAMNRLGVLRDDNDPNCTYEGDNNILLQQTSNYLLGLLAHQVHDGACFRSPLKSVDFLD  
AYPGILDQKFEVSSVADCLDSAVALAAYKWLVCYLLRETYQKLNQEKRSQSSDFEARNKCQVSHGRPLAL  
AFVELTVVQRFHEHVHQPSVPPSLRAVLGRLSALYALWLSRHAALLYRGGYFSGEQAGEVLESAYLALC  
SQLKDDAVALVDVIAPPDFVLDSPIGRADGELYKNLWGAVLQESKVLERASWWPEFSVNKPVIIGSLKSKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003492</a>
RefSeq Size:	2415



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RefSeq ORF: 2100

Locus ID: 8310

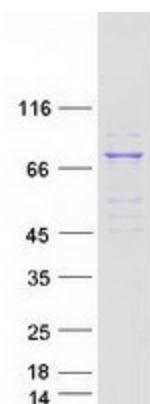
UniProt ID: [O15254](#)

Cytogenetics: 4p16.1

**Summary:** Acyl-Coenzyme A oxidase 3 also known 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. [provided by RefSeq, Jul 2008]

**Protein Pathways:** alpha-Linolenic acid metabolism, Biosynthesis of unsaturated fatty acids, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway

### Product images:



Coomassie blue staining of purified ACOX3 protein (Cat# [TP322515]). The protein was produced from HEK293T cells transfected with ACOX3 cDNA clone (Cat# [RC222515]) using MegaTran 2.0 (Cat# [TT210002]).