

Datasheet for ABIN7551946 ACOX1 Protein (AA 1-660) (His tag)



_					
	W	0	rv	10	W

Quantity:	1 mg
Target:	ACOX1
Protein Characteristics:	AA 1-660
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACOX1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ACOX1 Protein expressed in mammalian cells.
Sequence:	MNPDLRRERD SASFNPELLT HILDGSPEKT RRRREIENMI LNDPDFQHED LNFLTRSQRY
	EVAVRKSAIM VKKMREFGIA DPDEIMWFKK LHLVNFVEPV GLNYSMFIPT LLNQGTTAQK
	EKWLLSSKGL QIIGTYAQTE MGHGTHLRGL ETTATYDPET QEFILNSPTV TSIKWWPGGL
	GKTSNHAIVL AQLITKGKCY GLHAFIVPIR EIGTHKPLPG ITVGDIGPKF GYDEIDNGYL
	KMDNHRIPRE NMLMKYAQVK PDGTYVKPLS NKLTYGTMVF VRSFLVGEAA RALSKACTIA
	IRYSAVRHQS EIKPGEPEPQ ILDFQTQQYK LFPLLATAYA FQFVGAYMKE TYHRINEGIG
	QGDLSELPEL HALTAGLKAF TSWTANTGIE ACRMACGGHG YSHCSGLPNI YVNFTPSCTF
	EGENTVMMLQ TARFLMKSYD QVHSGKLVCG MVSYLNDLPS QRIQPQQVAV WPTMVDINSP
	ESLTEAYKLR AARLVEIAAK NLQKEVIHRK SKEVAWNLTS VDLVRASEAH CHYVVVKLFS
	EKLLKIQDKA IQAVLRSLCL LYSLYGISQN AGDFLQGSIM TEPQITQVNQ RVKELLTLIR
	SDAVALVDAF DFQDVTLGSV LGRYDGNVYE NLFEWAKNSP LNKAEVHESY KHLKSLQSKL
	Sequence without tag. The proposed Purification-Tag is based on experiences with the

expression system, a different complexity of the protein could make another tag necessary	
In case you have a special request, please contact us.	
If you are looking for a specific domain and are interested in a partial protein or a different	
isoform, please contact us regarding an individual offer.	
Key Benefits:	
 Made to order protein - from design to production - by highly experienced protein experts. Protein expressed in mammalian cells and purified in one-step affinity chromatography The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. 	
State-of-the-art algorithm used for plasmid design (Gene synthesis).	
This protein is a made-to-order protein and will be made for the first time for your order. Our	
experts in the lab try to ensure that you receive soluble protein.	
If you are not interested in a full length protein, please contact us for individual protein	
fragments.	
The big advantage of ordering our made-to-order proteins in comparison to ordering custom	
made proteins from other companies is that there is no financial obligation in case the protein	
cannot be expressed or purified.	
> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC	
custom-made	
ACOX1	
ACOX1 (ACOX1 Products)	
Peroxisomal acyl-coenzyme A oxidase 1 (AOX) (EC 1.3.3.6) (Palmitoyl-CoA oxidase)	
(Peroxisomal fatty acyl-CoA oxidase) (Straight-chain acyl-CoA oxidase) (SCOX) [Cleaved into:	
Peroxisomal acyl-CoA oxidase 1, A chain, Peroxisomal acyl-CoA oxidase 1, B chain,	
Peroxisomal acyl-CoA oxidase 1, C chain],FUNCTION: Involved in the initial and rate-limiting	
step of peroxisomal beta-oxidation of straight-chain saturated and unsaturated very-long-chair	
fatty acids (PubMed:7876265, PubMed:15060085, PubMed:17458872, PubMed:17603022,	
fatty acids (PubMed:7876265, PubMed:15060085, PubMed:17458872, PubMed:17603022, PubMed:32169171, PubMed:33234382). Catalyzes the desaturation of fatty acyl-CoAs such as	

hexadecenoyl-CoA, and donates electrons directly to molecular oxygen (O(2)), thereby

	producing hydrogen peroxide (H(2)O(2)) (PubMed:7876265, PubMed:17458872,	
	PubMed:17603022). {ECO:0000269 PubMed:15060085, ECO:0000269 PubMed:17458872,	
	ECO:0000269 PubMed:17603022, ECO:0000269 PubMed:32169171,	
	ECO:0000269 PubMed:33234382, ECO:0000269 PubMed:7876265}., FUNCTION: [Isoform 1]:	
	Shows highest activity against medium-chain fatty acyl-CoAs. Shows optimum activity with a	
	chain length of 10 carbons (decanoyl-CoA) in vitro. {ECO:0000269 PubMed:17603022}.,	
	FUNCTION: [Isoform 2]: Is active against a much broader range of substrates and shows	
	activity towards long-chain fatty acyl-CoAs. {ECO:0000269 PubMed:17603022}.	
Molecular Weight:	74.4 kDa	
UniProt:	Q15067	
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Monocarboxylic Acid Catabolic Process	
Application Details		
Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for	
Аррисацон Notes.	functional studies yet we cannot offer a guarantee though.	
	functional studies yet we cannot offer a guarantee though.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	12 months	