

Datasheet for ABIN7563684
Aox4 Protein (AA 1-1336) (His tag)



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Overview

Quantity:	1 mg
Target:	Aox4 (AOX4)
Protein Characteristics:	AA 1-1336
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aox4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Aox4 Protein expressed in mammalian cells.
Sequence:	MPSVSESEDEL IFFVNGKKVI EKNPDPEKNL LFYTRKVLNL TGTKYSCGTG GCGACTVMVS RYNPKTRKIH HYPATACLVP ICWLHGAAIT TVEGVGSIKK RVHPVQERLA KCHGTQCGFC SPGMVMSIYT LLRNHPEPTP DQITEALGGN LCRCTGYRPI VESGKTFSQK STVCQMKGSG KCCMDPDEKC LESREKKMCT KLYNEDEFQP FDPSQEPFIP PELIRMAEDP NKRRLTFQGK RTTWIIPVTL NDLLELKASY PEAPLVMGNT TVGPGIKFND EFYPVFISPL GVPELNLMDT TNNGVTIGAG YSLAQLKDTL DFLVSEQPKE KTKTFHALQK HLRTLAGPQI RNMATLGGHT ASRPNFSDLN PILAAGNATI NVVSREGKDR QLPLNGPFLE KLPEADLKPE EVILSIFIPY TAQWQFVSGL RLAQRQENAF AIVNAGMSVE FEEGTNTIKD LKMFFGVSAP TVVSASQTCK QLIGRQWDDQ MLSDACQLVL QEIRIPDAE GGMVEYRRTL IISLLFKFYI KVQRWLNEMD PQKFPDIPGK FVSALDDFPI ETPQGIQMFQ CVDPKQPQKD PVGHPIMHQS GIKHATGEAI FIDDMPPIDQ ELCLAVVTST RAHAKITSLD VSEALACPGV VDVITAEDVP GENDHNGEIL YAQSEVICVG QIICTVAADT YIHAKAAKR VKIAYDDIEP TIITIEEAL HNSFLSPEKK IEQGNVDYAF

KHVDQIVEGE IHVEGQEHFY METQTILAIP QTEDKEMVLH LGTQFPTHVQ EfvSAALNVP
RSRIACHMKR AGGAFGGKVT KPALLGAVCA VAANKTGRPI RfilERSDDM LITAGRHPll
GKYKIGFMNN GEIRAADVEY YTNNGGCTPDE SELVIEFVVL KSENTYHIPN FRCRGRACKT
NLPsNTAFRG FGFPQATVvV EAYIAAVASK CNLLPEEVRE INMYKkTSKT AYKQTFNPEP
LRRcWKECLE KSSFFARKKA AEEFNgnNYW KKRGLAVVPM KFSVAVPIAF YNQAALVHI
FLDGSVLLTH GGCELGQGLH TKMIQVASRE LNVPKSYVHF SETSTTTVPN SAFTAGSMGA
DINGKAVQNA CQILMDRLRP IIRKNPKGKW EEWIKMAFEE SISLSATGYF KGYQTNMDWK
KEEGDPYPPY VYGAACSEVE VDCLTGAHKL LRTDIFVDAa FSINPALDIG QVEGAFIQGM
GFYTTEELKY SPKGVLYSRG PEDYKIPTIT EIPEEFYVTL VHSRNPIAIY SSKGLGEAGM
FLGSSVLFai YDAVTTARKE RGLSDIFPLN SPATPEVIRM ACTDQFTEMI PRDDPSTFTp WSIHVS

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.

Specificity: 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.

Characteristics: 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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target:	Aox4 (AOX4)
Alternative Name:	Aox4 (AOX4 Products)
Background:	Aldehyde oxidase 4 (EC 1.2.3.1) (Aldehyde oxidase homolog 2) (Azaheterocycle hydroxylase 4) (EC 1.17.3.-) (Retinal oxidase),FUNCTION: Aldehyde oxidase able to catalyze the oxidation of retinaldehyde into retinoate. Is responsible for the major all-trans-retinaldehyde-metabolizing activity in the Harderian gland, and contributes a significant amount of the same activity in the skin. Is devoid of pyridoxal-oxidizing activity, in contrast to the other aldehyde oxidases. Acts as a negative modulator of the epidermal trophism. May be able to oxidize a wide variety of aldehydes into their corresponding carboxylates and to hydroxylate azaheterocycles. {ECO:0000269 PubMed:18981221}.
Molecular Weight:	148.3 kDa
UniProt:	Q3TYQ9

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for 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