

Datasheet for ABIN7562155
Aox3 Protein (AA 1-1335) (His tag)



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Overview

Quantity:	1 mg
Target:	Aox3 (AOX3)
Protein Characteristics:	AA 1-1335
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aox3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Aox3 Protein expressed in mammalian cells.
Sequence:	MSPSKESDEL IFFVNGKKVT ERNADPEVNL LFYLRKVIRL TGTKYGC GGG DCGACTVMIS RYDPISKRIS HFSATACLVP ICSLHGA AVT VEGIGSTKT RIHPVQERIA KGHGTQCGFC TPGMVMSIYT LLRNHPEPST EQIMETLGGN LCRCTGYRPI VESAKSFCPS STCCQMNGEG KCCLDEEKNE PERKNSVCTK LYEKKEFQPL DPTQELIFPP ELMRMAEESQ NTVLTFRGER TTWIAPGTLN DLLELKMKHP SAPLVIGNTY LGLHMKFTDV SYPIIIPAR ILELFVVTNT KQGLTLGAGL SLTQVKNVLS DVVSRLPKEK TQIYCALLKQ LKTLAGQQIR NVASLGGHII SRLPTS DLNP ILGIGNCILN VASTEGIQQI PLNDHFLAGV PDAILKPEQV LISVFVPRSS KWEFVSAFRQ APRQNAFAT VNAGMKVVK EDTNTITDLG ILYGGIGATV ISADKSCRQL IGRCWDEEML DDAGKMICEE VSLLMAAPGG MEEYRKT LAI SFLFMFYLDV LKQLKTRDPH KYPDISQKLL HILEDFPLTM PYGMQSFQDV DFQQLQDPI GRPIMHQSGI KHATGEAVFC DDMSVLPGEL FLAWVTSSKS HAKIISLDAS EALASLGVD VVTARDVPGD NGREEESLYA QDEVICVGQI VCAVAADSYA HAQQA AKKVK IVYQDIEPMI VTVQDALQYE SFIGPERKLE

QGNVEEAFQC ADQILEGEVH LGGQEHFYME TQSVRVVPKG EDKEMDIYVS SQDAAFTQEM
VARTLGIPKN RINCHVKRVG GAFGGKASKP GLLASVAAVA AQKTGRPIRF ILERRDDMLI
TGGRHPLL GK YKIGFMNNGK IKAADIQLYI NGGCTPDDSE LVIEYALLKL ENAYKIPNLR
VRGRVCKTNL PSNTAFRGFG FPQGAFVTET CMSAVAAKCR LPPEKVRELN MYRTIDRTIH
NQEFDPTNLL QCWEACVENS SYYNRKKAVD EFNQQRFWKK RGIAIIPMKF SVGFPKTFYY
QAAALVQIYT DGSVLVAHGG VELGQGINTK MIQVASRELK IPMSYIHLDE MSTVTVPNTV
TTGASTGADV NGRAVQNACQ ILMKRLEPII KQNPSGTWEE WVKEAFVQSI SLSATGYFRG
YQADMDWEKG EGDIFPYFVF GAACSEVEID CLTGAHKNI R TDIVMDGSFS INPAVDIGQI
EGAFVQGLGL YTLEELKYSP EGVLYTRGPH QYKIASVTDI PEEFHVSLLT PTPNPKAIYS
SKGLGEAGTF LGCSVFFAIA AAVAAAREER GLSPIWAINS PATAEVIRMA CEDQFTNLVLP
QTDSKCKPW SIPVA **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:	Aox3 (AOX3)
Alternative Name:	Aox3 (AOX3 Products)
Background:	<p>Aldehyde oxidase 3 (EC 1.2.3.1) (Aldehyde oxidase homolog 1) (Azaheterocycle hydroxylase 3) (EC 1.17.3.-),FUNCTION: Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide and phthalazine, as well as aldehydes, such as benzaldehyde, retinal and pyridoxal. Plays a key role in the metabolism of xenobiotics and drugs containing aromatic azaheterocyclic substituents. Is probably involved in the regulation of reactive oxygen species homeostasis. May be a prominent source of superoxide generation via the one-electron reduction of molecular oxygen. May also catalyze nitric oxide (NO) production via the reduction of nitrite to NO with NADH or aldehyde as electron donor.</p> <p>{ECO:0000269 PubMed:11562361, ECO:0000269 PubMed:18981221, ECO:0000269 PubMed:21705476, ECO:0000269 PubMed:23019336}.</p>
Molecular Weight:	146.9 kDa
UniProt:	G3X982

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