

Datasheet for ABIN5709049

**AOX1 Protein (AA 236-421, PCMH-type domain) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	100 µg
Target:	AOX1
Protein Characteristics:	PCMH-type domain, AA 236-421
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AOX1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	FGSERMMWFS PVTLKELLE F KFKYPQAPVI MGNTSVGPEV KFKGVFHPVI ISPDRIEELS VVNHAYNGLT LGAGLSLAQV KDILADV VQK LPEEKTQMYH ALLKHLGTLA GSQIRNMASL GGHIISRHPD SDLNPILAVG NCTLNLLSKE GKRQIPLNEQ FLSKCPNADL KPQEILVSVN IPYSRK
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

Target:	AOX1
Alternative Name:	AOXA ( <a href="#">AOX1 Products</a> )
Background:	Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide and N-methylphthalazinium, as well as aldehydes, such as benzaldehyde,

## Target Details

retinal, pyridoxal, and vanillin. Plays a key role in the metabolism of xenobiotics and drugs containing aromatic azaheterocyclic substituents. Participates in the bioactivation of prodrugs such as famciclovir, catalyzing the oxidation step from 6-deoxypenciclovir to penciclovir, which is a potent antiviral agent. 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. Also may catalyze nitric oxide (NO) production via the reduction of nitrite to NO with NADH or aldehyde as electron donor. May play a role in adipogenesis

Molecular Weight: 24.7 kDa

UniProt: [Q06278](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

## Handling

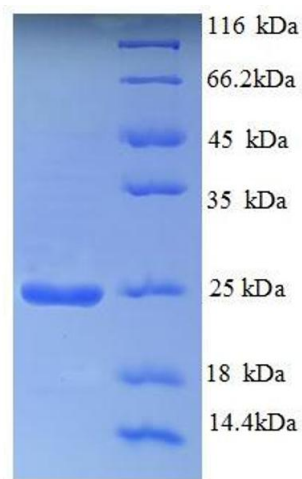
Format: Liquid

Concentration: 0.1-2 mg/mL

Buffer: 20 mM Tris-HCl based buffer, pH 8.0

Storage: -80 °C, 4 °C, -20 °C

Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



**SDS-PAGE**

**Image 1.**