

Recombinant Human AOX1 Protein (236-421 aa), His-tagged

Cat. No. AOX1-329H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AOX1 Protein (236-421 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Metabolism. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	236-421 aa
Description	Oxidase with broad substrate specificity, oxidizing aromatic azaheterocycles, such as N1-methylnicotinamide and N-methylphthalazinium, as well as aldehydes, such as benzaldehyde, 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
Form	Tris-based buffer, 50% glycerol
Molecular Mass	24.6 kDa

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AA Sequence	FGSERMMWFSPVTLKELLEFKFKYPQAPVIMGNTSVGPEVKFKGVFHPVIISPDRIEE LSVVNHAYNGLTLGAGLSLAQVKDILADVQKLPEEKTQMYHALLKHLGTLAGSQIR NMASLGGHIISRHPDSDLNPILAVGNCTLNLLSKEGKRQIPLNEQFLSKCPNADLKPQ EILVSVNIPYSRK
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name	AOX1 aldehyde oxidase 1 [Homo sapiens]
Official Symbol	AOX1
Synonyms	AOX1; aldehyde oxidase 1; aldehyde oxidase; AO; AOH1;
Gene ID	316
mRNA Refseq	NM_001159
Protein Refseq	NP_001150

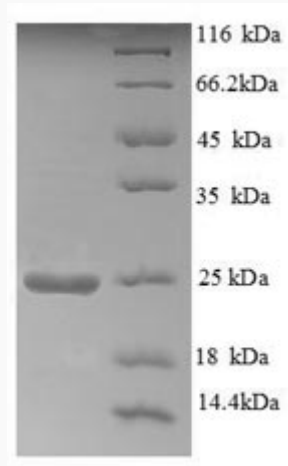
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MIM 602841

UniProt ID Q06278



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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