

Product datasheet for PH319221

Aldehyde Oxidase (AOX1) (NM_001159) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AOX1 MS Standard C13 and N15-labeled recombinant protein (NP_001150)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC219221
Predicted MW:	147.7 kDa
Protein Sequence:	>RC219221 representing NM_001159 Red=Cloning site Green=Tags(s)

MDRASELLFYVNGRKVIEKNVDPETMLLPYLRRKLRGTGKYGCGGGCGACTVMISRYNPITKRIRHHP
ANACLIPICSLYGAAVTTVEGIGSTHTRHPVQERIAKCHGTQCGFCTPGMVMSIYTLRNHPEPTLDQL
TDALGGNLCRCTGYRPIIDACKTFCKTSGCCQSKENGVCCLDQGINGLPEFEEGSKTSPKLF AEEEFPLP
DPTQELIFPPELMIMAEKQSRTRVFGSERMMWFSPVTLKELLEFKFKYPQAPVIMGNTSVGPEVKFKGV
FHPV IISPDRIEELSVNHAYNGLTLGAGLSLAQVKDILADVQKLPEEKTQMYHALLKHLGTLAGSQIR
NMAASLGGH IISRHPDSDLNPILAVGNCTLNLLSKEGKRQIPLNEQFLSKCPNADLKPQEILVSVNIPYSR
KWEFVSAFRQAQRQENALAIVNSGMRVFFGEGDGI IRELCISYGGVGPATICAKNSCQK IGRHWNEQML
DIACRLILNEVSLLGSAPEGKVEFKRTL IISFLFKFYLEVSQILKKMDPVHYPSLADKYESALEDLHSHK
HCSTLKYQNIQPKQHPEDPIGHPIMHLSGVKHATGEAIYCDMPLVDQELFLTFTVTSRAHAKIVSIDLS
EAL SMPGVVDIMTAEHLSDVNSFCFFTEAEKFLATDKVFCVQQLVCAVLADSEVQAKRAAKRVKIYVQDL
EPLILTIEESIQHNSFKPERKLEYGNVDEAFKVVDQILEGEIHMGGQEHFYMETQSMLVVPKGEDQEMD
VYVSTQFPKYIQDIVASTLKL PANKVMCHVRRVGGAFGGKVLKTGIIAAVTAFAANKHGRAVRCVLERGE
DMLITGGRHPYLKGYKAGFMNDGRILALDMEHYSNAGASLDESLFVIEMGLLKMDNAYKFPNLRRCRWAC
RTNLP SNTAFRFGFPQAALITESCITEVAACKGLSPEKVRIINMYKEIDQTPYKQEIINAKNLIQCWREC
MAMSSYSRLKVAVEKFNAENYWKKKGLAMVPLKFPVGLGSRAAGQAAALVHIYLDGSVLVTHGGIEMGQG
VHTKMIQVVSREL RMPMSNVHLRGTSTETVPNANISGGSVVADNLGLAVKDACQTL LKRLPEIISKNPKG
TWKDWAQTA FDESINLSAVGYFRGYESDMNWEKGEGQPFYFVYGAACSEVEIDCLTGDHKNIRTDIVMD
VGCSINPAIDIGQIEGAFIQGMGLYTIIEELNYSPOGILHTRGPDQYKIP AICDMPTELHIALPPSQNSN
TLYSSKGLGESGVFLGCSVFFAIHDAVSAARQERGLHGPLTLNSPLTPEKIRMACEDKFTKMIPRDEPGS
YVPWNVPI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

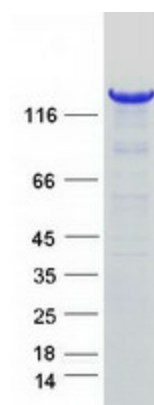
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method



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Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001150
RefSeq Size:	4949
RefSeq ORF:	4014
Synonyms:	AO; AOH1
Locus ID:	316
UniProt ID:	Q06278
Cytogenetics:	2q33.1
Summary:	Aldehyde oxidase produces hydrogen peroxide and, under certain conditions, can catalyze the formation of superoxide. Aldehyde oxidase is a candidate gene for amyotrophic lateral sclerosis. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Metabolic pathways, Nicotinate and nicotinamide metabolism, Tryptophan metabolism, Tyrosine metabolism, Valine, leucine and isoleucine degradation, Vitamin B6 metabolism

Product images:



Coomassie blue staining of purified AOX1 protein (Cat# [TP319221]). The protein was produced from HEK293T cells transfected with AOX1 cDNA clone (Cat# [RC219221]) using MegaTran 2.0 (Cat# [TT210002]).