

Active Recombinant Human DAO Protein, His-tagged

Cat. No. DAO-392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DAAO protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 1mM DTT
Bio-activity	Specific activity is >3.5 units/mg, in which one unit will oxidatively deaminate 1.0 umole of D-alanine to pyruvate per minute at pH 8.5 at 37C, in the presence of catalase.
Molecular Mass	41.6 kDa (367aa), confirmed by MALDI-TOF
AA Sequence	<p>MGSSHHHHHH SGLVPRGSH MRVVVIGAGV IGLSTALCIH ERYHSVLQPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTTPR ELDMFPDYG GWFHTSLILE GKNYLQWLTE RLTERGVKFF QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPQLLPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQTVTLGG IFQLGNWSEL NNIQDHNTIW EGCCRLEPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKKLS RMPPSHL</p>
Purity	>90% by SDS - PAGE

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Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name DAO D-amino-acid oxidase [Homo sapiens]

Official Symbol DAO

Synonyms DAO; D-amino-acid oxidase; DAMOX; D-amino acid oxidase; DAAO; OXDA; MGC35381;

Gene ID 1610

mRNA Refseq NM_001917

Protein Refseq NP_001908

MIM 124050

UniProt ID P14920

Chromosome Location 12

Pathway Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; D-Arginine and D-ornithine metabolism, organism-specific biosystem; D-Arginine and D-ornithine metabolism, conserved biosystem;

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Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Glyoxylate metabolism, organism-specific biosystem;

Function

D-amino-acid oxidase activity; D-amino-acid oxidase activity; FAD binding; nucleotide binding; oxidoreductase activity; protein binding; protein dimerization activity;

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