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D-amino acid oxidase, human recombinant

DAMOX, DAO, OXDA
Catalog # PBV11532r

Specification

D-amino acid oxidase, human recombinant - Product info

Primary Accession	P14920
Calculated MW	**41.6 kDa KDa**

D-amino acid oxidase, human recombinant - Additional Info

Gene ID	**1610**
Other Names	
DAMOX, DAO, OXDA	
Gene Source	**Human**
Source	**E. coli**
Assay&Purity	**SDS-PAGE;> 90%**
Recombinant	**Yes**
Sequence	**MGSSHHHHHH SSGLVPRGSH MRVVVIGAGV IGLSTALCIH ERYHSVLQPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTPR ELDMFPDYGY GWFHTSLILE GKNYLQWLTE RLTERGVKFF QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPLLQPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQTVTLGG IFQLGNWSEL NNIQDHNTIW EGCCRLEPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKKLS RMPPSHL**

Target/Specificity
DAO

Format
Liquid

Storage
-20°C;In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 20% glycerol

D-amino acid oxidase, human recombinant - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

D-amino acid oxidase, human recombinant - Images

D-amino acid oxidase, human recombinant - Background

D-amino-acid oxidase (DAAO) is a peroxisomal enzyme which uses flavin adenine dinucleotide (FAD) as a cofactor and oxidizes D-amino acids to the corresponding imino acids, producing ammonia and hydrogen peroxide. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. It has been suggested that it is involved in acid base balance in the kidney or it could act as a detoxifying agent which removes D-amino acids accumulated during aging. Recombinant human DAAO protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.