

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 ELDMFDPDYG
GWFHTSLILE GKNYLQWLTE RLTERGVKFF
QRKVESFEEV AREGADVIVN CTGVWAGALQ
RDPLLQPGRG QIMKVDAPWM KHFILTHDPE
RGIYNSPYII PGTQTVTLGG IFQLGNWSEL
NNIQDHNTIW EGCCRLEPTL KNARIIGERT
GFRPVRPQIR LEREQLRTGP SNTTEVIHNYG
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 Cytometry](#)
- [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.