# NKMAXBIO We support you, we believe in your research

# Recombinant human D amino acid oxidase/DAO protein

Catalog Number: ATGP0338

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

1-347aa

#### **UniProt No.**

P14920

#### **NCBI Accession No.**

NP 001908.3

#### **Alternative Names**

D-amino acid oxidase, DAMOX, DAO, OXDA, DAAO

# PRODUCT SPECIFICATION

#### **Molecular Weight**

41.6 kDa (367aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

#### **Description**

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.



# NKMAXBio We support you, we believe in your research

# Recombinant human D amino acid oxidase/DAO protein

Catalog Number: ATGP0338

### **Amino acid Sequence**

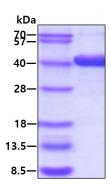
<MGSSHHHHHH SSGLVPRGSH> MRVVVIGAGV IGLSTALCIH ERYHSVLQPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTPR ELDMFPDYGY GWFHTSLILE GKNYLQWLTE RLTERGVKFF QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPLLQPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQTVTLGG IFQLGNWSEL NNIQDHNTIW EGCCRLEPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKKLS RMPPSHL

#### **General References**

Kawazoe T., et al. (2006). Protein Sci. 15(12):2708-17. Chassande O., et al. (1994). J Biol Chem. 269(20):14484-9.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

