

Product information



DAAO, 1-347 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0338

Full name : D-amino acid oxidase

NCBI Accession No.: NP_001908

Synonyms: DAMOX, DAO, OXDA

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.

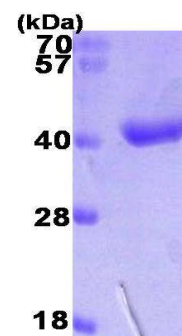
Form: Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

1mM DTT

Molecular Weight: 41.6 kDa (367aa)

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MRVVVIGAGV IGLSTALCIH ERYHSLVQLPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ
TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTTPR ELDMPDYGW GWFHTSLILE GKNYLQWLTE RLTERGVKFF
QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPLLQPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQVTLLGG IFQLGNWSEL
NNIQDHNTIW EGCCRLPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKKLS
RMPPSHL

General references:

Kawazoe T., *et al.* (2006). *Protein Sci.* **15**(12):2708-17.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Chassande O., *et al.* (1994). *J Biol Chem.* **269**(20):14484-9.

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

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