

DAAO, 1-347 aa, Human, His tag, E.coli

Cat.NO.: TP01827

3th Edition

Synonyms:D-amino acid oxidase, 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), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMRVVIGAGVIGLSTALCIHERYHSLQPLDIKVYADRFTPLTTTDVAAGLWQPYL
SDPNNPQEADWSQQTFDYLLSHVHSPNAENLGLFLISGYNLFHEAIPDPSWKDVLGFRKLTPRELDMFDPYGYG
WFHTSLILEGKNYLQWLTERLTERGVKFFQRKVESFEEVAREGADVIVNCTGVWAGALQRDPLLQPGRGQIMKVD
APWMKHFILTHDPERGIYNSPYIIPGTQTVTLGGIFQLGNWSELNNIQDHNTIWEGCCRLEPTLKNARIIGERTGFRP
VRPQIRLEREQLRTGPSNTEVIHNYGHGGYGLTIHWGCALEAAKLFGRILEEKLSRMPPSHL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.