

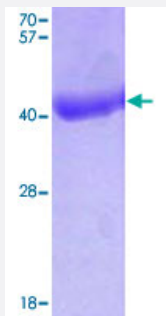
Full-Length

DAO (Human) Recombinant Protein

Catalog # P3538

Size 50 ug

Applications



Specification

Product Description

Human DAO (NP_001908, 1 a.a. - 347 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence

MGSSHHHHHHSSGLVPRGSHMRVVVIGAGVIGLSTALCIHERYHSVLQPLDIKVYADRFTPLTTTD
VAAGLWQPYLSDPNNPQEADWSQQTFDYLLSHVHSPNAENLGLFLISGYNLFHEAIPDPSWKDT
VLGFRKLTPRELDMPDYGWGFHTSLILEGKNYLQWLTERLTERGVKFFQRKVESFEEVAREGA
DVIVNCTGVWAGALQRDPLLQPGRGQIMKVDAPWMKHFILTHDPERGIYNSPYIIPGTQTVTLGGIF
QLGNWSELNNIQDHNTWEGCCRLEPTLKNARIIGERTGFRPVRPQIRLEREQRLRTGPSNTEVIHNY
GHGGYGLTIHWGCALEAAKLFGRILEEKLSRMPPSHL

Host

Escherichia coli

Theoretical MW (kDa)

41.6

Form

Liquid

Preparation Method

Escherichia coli expression system

Purification

Conventional Chromatography

Concentration

0.5 mg/mL

Purity

> 95% by SDS-PAGE

Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE
Storage Buffer	In 20 mM Tris-HCl buffer, pH 8.0 (1 mM DTT, 20% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- [SDS-PAGE](#)

Gene Info — DAO

Entrez GeneID	1610
Protein Accession#	NP_001908
Gene Name	DAO
Gene Alias	DAAO, DAMOX, MGC35381, OXDA
Gene Description	D-amino-acid oxidase
Omim ID	124050 181500
Gene Ontology	Hyperlink

Gene Summary	This gene encodes the peroxisomal enzyme D-amino acid oxidase. The enzyme is a flavoprotein which uses flavin adenine dinucleotide (FAD) as its prosthetic group. Its substrates include a wide variety of D-amino acids, but it is inactive on the naturally occurring L-amino acids. Its biological function is not known; it may act as a detoxifying agent which removes D-amino acids that accumulate during aging. In mice, it degrades D-serine, a co-agonist of the NMDA receptor. This gene may play a role in the pathophysiology of schizophrenia. [provided by RefSeq]
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Other Designations	-
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Pathway

- [Arginine and proline metabolism](#)
- [D-Arginine and D-ornithine metabolism](#)
- [Glycine](#)

- [Metabolic pathways](#)

Disease

- [Autistic Disorder](#)
- [Bipolar Disorder](#)
- [Brief Psychiatric Rating Scale](#)
- [Celiac Disease](#)
- [Cognition](#)
- [Crohn Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Intelligence Tests](#)
- [Mood Disorders](#)
- [Neuropsychological Tests](#)
- [Personality Tests](#)
- [Psychotic Disorders](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Schizotypal Personality Disorder](#)
- [Weight Gain](#)