

Recombinant Human DAO Protein, His-tagged

Cat. No. DAO-1307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DAO Protein (Met1-Leu347) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Leu347
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.5 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	DAO D-amino-acid oxidase [Homo sapiens (human)]
Official Symbol	DAO
Synonyms	DAO; D-amino-acid oxidase; DAMOX; D-amino acid oxidase; DAAO; OXDA; MGC35381;
Gene ID	1610
mRNA Refseq	NM_001917
Protein Refseq	NP_001908
MIM	124050
UniProt ID	P14920

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