

Recombinant Human DAO, GST-tagged

Cat. No. DAO-11821H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human DAO protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	24-347a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

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Gene Name	DAO D-amino-acid oxidase [Homo sapiens]
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
Chromosome Location	12
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; D-Arginine and D-ornithine metabolism, organism-specific biosystem; D-Arginine and D-ornithine metabolism, conserved biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Glyoxylate metabolism, organism-specific biosystem;
Function	D-amino-acid oxidase activity; D-amino-acid oxidase activity; FAD binding; nucleotide binding; oxidoreductase activity; protein binding; protein dimerization activity;

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