

## Recombinant Rat DAO Protein (1-346 aa), His-Myc-tagged

Cat. No. DAO-2573R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat DAO Protein (1-346 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Metabolism. Protein Description: Full Length.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-346 aa
<b>Description</b>	Regulates the level of the neuromodulator D-serine in the brain. Has high activity towards D-DOPA and contributes to dopamine synthesis. Could act as a detoxifying agent which removes D-amino acids accumulated during aging. Acts on a variety of D-amino acids with a preference for those having small hydrophobic side chains followed by those bearing polar, aromatic, and basic groups. Does not act on acidic amino acids.
<b>Form</b>	Tris-based buffer, 50% glycerol
<b>Molecular Mass</b>	45.8 kDa
<b>AA Sequence</b>	MRVAVIGAGVIGLSTALCIHERYHPAQPLHMKIYADRFTPFTTSDVAAGLWQPYLSD PSNPQEAewnqqTFDHLQsclHSPNAEKMGLALISGYNLFRDEVDPDFWKSTVLG FRKLTpSELDmFPDYSYGWFNTsLLLEGKSYLSWlTERLTERGVKFIHRKVASFEEV VRGGVDVIINCTGVWAGALQADASLQPGRGQIIQVEAPWIKHFILTHDPSLGIYNsPYI

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IPGSKTVTLGGVFQLGNWSELNSVHDHNTIWKSCCQLEPTLKNARIMGELTGFRPV  
 RPQVRLERERLRFSGSSSAEVIHNYGHGGYGLTIHWGCAMEEAANLFGKILEEKNSLR  
 MPPSHL

**Purity** > 85% as determined by SDS-PAGE.

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

**Concentration** A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

**Gene Name** [Dao D-amino-acid oxidase \[ Rattus norvegicus \]](#)

**Official Symbol** [DAO](#)

**Synonyms** DAO; D-amino-acid oxidase; DAAO; DAMOX; D-amino acid oxidase 1; Dao1;

**Gene ID** [114027](#)

**mRNA Refseq** [NM\\_053626](#)

**Protein Refseq** [NP\\_446078](#)

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UniProt ID

O35078



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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