

## 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<br>PSNPQEAewnQQTFDHLQsclHSPNAEKMGGLALISGYNLFRDEVPDPFWKSTVLG<br>FRKLTPSELDMFPDYSYGWFNTSLLLEGKSYLSWALTERLTERGVKFIHRKVASFEEV<br>VRGGVDVIINCTGVWAGALQADASLQPGRGQIIQVEAPWIKHFILTHDPSLGIYNsPYI                                                                                                                                                                                   |

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IPGSKTVTLGGVFQLGNWSELNSVHDHNTIWKSCCQLEPTLKNARIMGELTGFRPV  
RPQVRLERERLRFGSSSAEVIHNYGHGGYGLTIHWGCAMEAANLFGKILEEKNLSR  
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](#)

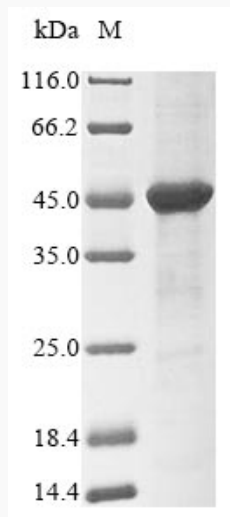
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UniProt ID

O35078



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

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