

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

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

SPECIFICATION

Product Overview	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.
Species	Rat
Source	E.coli
ProteinLength	1-346 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	45.8 kDa
AA Sequence	MRVAVIGAGVIGLSTALCIHERYHPAQPLHMKIYADRFTPFTTSDVAAGLWQPYLSD PSNPQEAewnQQTFDHLQsclHSPNAEKMGGLALISGYNLFRDEVPDPFWKSTVLG FRKLTPSELDMFPDYSYGWFNTSLLLEGKSYLSWALTERLTERGVKFIHRKVASFEEV 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

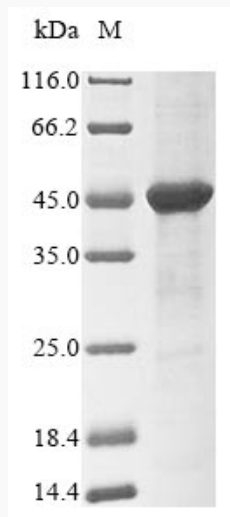
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UniProt ID

O35078



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

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