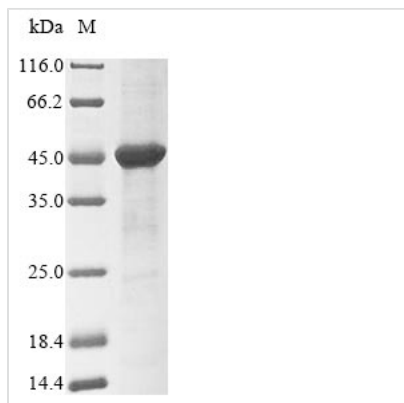




# Recombinant Rat D-amino-acid oxidase (Dao)

<b>Product Code</b>	CSB-EP006494RA
<b>Relevance</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>Abbreviation</b>	Recombinant Rat Dao protein
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O35078
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MRVAVIGAGVIGLSTALCIHERYHQAQPLHMKIYADRFTPFTTSDVAAGLWQPY LSDPSNPQEAewnqqTFDHLQsclHSPNAEKMGALISGYNLFRDEVPDPFW KSTVLGFRKLTPSELDMFPDYSYGWFNTSLLEGGKSYLSWLTERLTERGVKFI HRKVASFEEVVRGGVDVIINCTGVWAGALQADASLQPGRGQIIQVEAPWIKHFI LTHDPSLGIYNsPYIIPGSKTVTLGGVFQLGNWSELNSVHDHNTIWKSCCQLEP TLKNARIMGELTGFRPVRPQVRLERERLRFGSSSAEVIHNYGHGGYGLTIHWG CAMEAANLFGKILEEKNLsRMPPSHL
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Target Names</b>	Dao
<b>Protein Names</b>	Dao1
<b>Expression Region</b>	1-346aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged
<b>Mol. Weight</b>	45.8 kDa
<b>Protein Length</b>	Full Length
<b>Image</b>	



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

### Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

### Shelf Life

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