

## Active Native Porcine D-Amino acid oxidase

**Cat. No.** DAO1-25P    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                        |                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>         | Pig                                                                                                                                                                                                                                    |
| <b>Source</b>          | Porcine Kidney                                                                                                                                                                                                                         |
| <b>ProteinLength</b>   | 347 aa                                                                                                                                                                                                                                 |
| <b>Form</b>            | A freeze-dried material.                                                                                                                                                                                                               |
| <b>Bio-activity</b>    | 6000 U/g                                                                                                                                                                                                                               |
| <b>Unit Definition</b> | That amount of enzyme causing the transformation of one micromole of D-alanine to pyruvate per minute at 25 °C and pH 8.3 in the presence of catalase.                                                                                 |
| <b>Usage</b>           | For research use only, not for diagnostic or therapeutic use.                                                                                                                                                                          |
| <b>Storage</b>         | Store desiccated at -15 °C or below. Allow to come to room temperature before opening. Before returning to storage, redesiccate under vacuum over silica gel for a minimum of four hours. Re-seal before returning to -15 °C or below. |

### GENE INFORMATION

|                        |                                                 |
|------------------------|-------------------------------------------------|
| <b>Gene Name</b>       | DAO1 D-amino acid oxidase [ <i>Sus scrofa</i> ] |
| <b>Official Symbol</b> | DAO1                                            |

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|                            |                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | DAO; DAAO; DAMOX; D-amino-acid oxidase                                                                                                                                         |
| <b>Gene ID</b>             | <a href="#">397134</a>                                                                                                                                                         |
| <b>mRNA Refseq</b>         | <a href="#">NM_214066</a>                                                                                                                                                      |
| <b>Protein Refseq</b>      | <a href="#">NP_999231</a>                                                                                                                                                      |
| <b>UniProt ID</b>          | <a href="#">P00371</a>                                                                                                                                                         |
| <b>Chromosome Location</b> | 14q2.1-q2.3; 14                                                                                                                                                                |
| <b>Pathway</b>             | Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; D-Arginine and D-ornithine metabolism, conserved biosystem |
| <b>Function</b>            | D-amino-acid oxidase activity; FAD binding; protein dimerization activity                                                                                                      |

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