



碧云天生物技术/Beyotime Biotechnology  
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## D-Amino Acid Oxidase (Crude Enzyme)

产品编号	产品名称	包装
P3595-100ml	D-Amino Acid Oxidase (Crude Enzyme)	100ml
P3595-1L	D-Amino Acid Oxidase (Crude Enzyme)	1L

### 产品简介:

- D-Amino Acid Oxidase, 中文名为D-氨基酸氧化酶, 催化D-氨基酸生成 $\alpha$ -酮酸和氨。本产品为大肠杆菌表达的D-氨基酸氧化酶, 并经简单纯化获得的可以确保达到一定酶活力的粗酶液。
- 由于本产品需新鲜制备, 确认订购后约6个工作日才可以发货。个别情况首次制备出现问题, 发货时间会顺延。
- 本产品可以提供十公斤、百公斤乃至吨级的粗酶液, 如有需求请联系碧云天。
- D-Amino Acid Oxidase (DAAO; also DAO, OXDA, DAMOX) is a peroxisomal enzyme containing FAD as cofactor that is expressed in a wide range of species from yeasts to human. It is not present in plants or in bacteria which instead use D-amino acid dehydrogenase. Its function is to oxidize D-amino acids to the corresponding imino acids, producing ammonia and hydrogen peroxide. DAAO is a candidate susceptibility gene and together with G72 may play a role in the glutamatergic mechanisms of schizophrenia. Risperidone and sodium benzoate are inhibitors of DAAO. DAAO is used as a biocatalyst in several biotechnological applications, such as the oxidation of cephalosporin C, the deracemization of racemic D-amino acid solutions and as the biological component in several biosensors for the determination of the content in D-amino acids of biological fluids. This protein may use the morphine model of allosteric regulation. This product with the indicated enzyme activity was briefly purified from engineered *E.coli*.
- 产品详细信息见下表:

About this product	
Name	D-Amino Acid Oxidase (Crude Enzyme); D-氨基酸氧化酶(粗酶液)
Application	催化D-氨基酸生成 $\alpha$ -酮酸和氨
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	D-Amino Acid Oxidase; D-氨基酸氧化酶
CAS Number	9000-88-8
EC Number	1.4.3.3
Enzymatic Reaction	a D-amino acid + H <sub>2</sub> O + O <sub>2</sub> = a 2-oxo carboxylate + NH <sub>3</sub> + H <sub>2</sub> O <sub>2</sub>
Synonyms	ophio-amino-acid oxidase; L-amino acid:O <sub>2</sub> oxidoreductase; new yellow enzyme
Systematic name	D-amino-acid:oxygen oxidoreductase (deaminating)
Cofactor(s)	FAD; flavin
Application	biotechnology; industry; drug development; medicine; pharmacology; analysis; diagnostics; synthesis

### 包装清单:

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P3595-1L	D-Amino Acid Oxidase (Crude Enzyme)	1L
—	说明书	1份

### 保存条件:

-20°C或更低温度保存, 至少1个月有效。

### 注意事项:

- 由于本产品需新鲜制备, 在您确认订购后约6个工作日才能发货。个别情况首次制备出现问题, 发货时间会顺延。
- 粗酶液的每次冻融均可能会引起部分失活, 所以收到酶液后请根据需要进行分装, 并置于-20°C或更低温度保存。
- 随着保存时间的延长, 酶活力会有一定程度的下降, 收到产品后应尽快使用。
- 本产品在生产和保存的过程中可能会有混浊或沉淀产生, 融化后混匀即可, 不影响正常使用。
- 本产品仅限于专业人员的科学研究用, 不得用于临床诊断或治疗, 不得用于食品或药品, 不得存放于普通住宅内。

➤ 为了您的安全和健康，请穿实验服并戴一次性手套操作。

**使用说明：**

1. 收到产品后请立即使用或按照说明书推荐的条件保存。随着保存时间的延长，酶活力会有一定程度的下降。
2. 具体的最佳工作条件请自行参考相关文献，或者通过实验进行摸索和优化。

**相关产品：**

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