



碧云天生物技术/Beyotime Biotechnology  
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## Secondary Alcohol Dehydrogenase (Crude Enzyme, for NADH Regeneration)

产品编号	产品名称	包装
P3501-100ml	Secondary Alcohol Dehydrogenase (Crude Enzyme, for NADH Regeneration)	100ml
P3501-1L	Secondary Alcohol Dehydrogenase (Crude Enzyme, for NADH Regeneration)	1L

### 产品简介:

- Secondary Alcohol Dehydrogenase, 中文名为仲醇脱氢酶, 常用于NADH的再生。本产品为大肠杆菌表达的仲醇脱氢酶, 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。
- Alcohol dehydrogenases (ADH) are a group of dehydrogenase enzymes that occur in many organisms and facilitate the interconversion between alcohols and aldehydes or ketones with the reduction of nicotinamide adenine dinucleotide (NAD<sup>+</sup> to NADH). In humans and many other animals, they serve to break down alcohols that otherwise are toxic, and they also participate in generation of useful aldehyde, ketone, or alcohol groups during biosynthesis of various metabolites. In yeast, plants, and many bacteria, some alcohol dehydrogenases catalyze the opposite reaction as part of fermentation to ensure a constant supply of NAD<sup>+</sup>. This product with the indicated enzyme activity was briefly purified from engineered *E.coli*, and can be used for NADH regeneration in biotechnology.
- 产品详细信息见下表:

About this product	
Name	Secondary Alcohol Dehydrogenase (Crude Enzyme, for NADH Regeneration); 仲醇脱氢酶(粗酶液, 用于NADH的再生)
Application	NADH regeneration
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	Secondary Alcohol Dehydrogenase; 仲醇脱氢酶
CAS Number	9031-72-5
EC Number	1.1.1.1
Enzymatic Reaction	a secondary alcohol + NAD <sup>+</sup> = a ketone + NADH + H <sup>+</sup>
Synonyms	aldehyde reductase; ADH; alcohol dehydrogenase (NAD); aliphatic alcohol dehydrogenase; ethanol dehydrogenase; NAD-dependent alcohol dehydrogenase; NAD-specific aromatic alcohol dehydrogenase; NADH-alcohol dehydrogenase; NADH-aldehyde dehydrogenase; primary alcohol dehydrogenase; yeast alcohol dehydrogenase
Systematic name	alcohol:NAD <sup>+</sup> oxidoreductase
Cofactor(s)	NAD and NADH
Application	synthesis; medicine; biotechnology

### 包装清单:

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—	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 and 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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