



碧云天生物技术/Beyotime Biotechnology
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Threonine Deaminase (Crude Enzyme)

产品编号	产品名称	包装
P3802-100ml	Threonine Deaminase (Crude Enzyme)	100ml
P3802-1L	Threonine Deaminase (Crude Enzyme)	1L

产品简介:

- Threonine Deaminase, 中文名为苏氨酸脱氨酶, 催化苏氨酸脱氨, 生成2-酮丁酸和氨。本产品为大肠杆菌表达的苏氨酸脱氨酶, 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。
- Threonine ammonia-lyase, also commonly referred to as threonine deaminase or threonine dehydratase, is an enzyme responsible for catalyzing the conversion of L-threonine into alpha-ketobutyrate and ammonia. Alpha-ketobutyrate can be converted into L-isoleucine, so threonine ammonia-lyase functions as a key enzyme in BCAA synthesis. It employs a pyridoxal-5'-phosphate cofactor, similar to many enzymes involved in amino acid metabolism. It is found in bacteria, yeast, and plants, though most research to date has focused on forms of the enzyme in bacteria. This enzyme was one of the first in which negative feedback inhibition by the end product of a metabolic pathway was directly observed and studied. The enzyme serves as an excellent example of the regulatory strategies used in amino acid homeostasis. 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	Threonine Deaminase (Crude Enzyme); 苏氨酸脱氨酶(粗酶液)
Application	催化苏氨酸脱氨, 生成2-酮丁酸和氨
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	Threonine Deaminase; 苏氨酸脱氨酶
CAS Number	9024-34-4
EC Number	4.3.1.19
Enzymatic Reaction	L-threonine = 2-oxobutanoate + NH ₃ (overall reaction) (1a) L-threonine = 2-aminobut-2-enoate + H ₂ O (1b) 2-aminobut-2-enoate = 2-iminobutanoate (spontaneous) (1c) 2-iminobutanoate + H ₂ O = 2-oxobutanoate + NH ₃ (spontaneous)
Synonyms	threonine deaminase; L-serine dehydratase; serine deaminase; L-threonine dehydratase; threonine dehydrase; L-threonine deaminase; threonine dehydratase; L-threonine hydro-lyase (deaminating); L-threonine ammonia-lyase
Systematic name	L-threonine ammonia-lyase (2-oxobutanoate-forming)
Cofactor(s)	ADP; pyridoxal 5'-phosphate
Application	molecular biology; synthesis

包装清单:

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P3802-100ml	Threonine Deaminase (Crude Enzyme)	100ml
P3802-1L	Threonine Deaminase (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 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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