



碧云天网站



微信公众号

碧云天生物技术/Beyotime Biotechnology

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Aspartate Kinase (Crude Enzyme)

产品编号	产品名称	包装
P3685-100ml	Aspartate Kinase (Crude Enzyme)	100ml
P3685-1L	Aspartate Kinase (Crude Enzyme)	1L

产品简介:

- Aspartate Kinase, 中文名为天冬氨酸激酶, 催化天冬氨酸的磷酸化。本产品为大肠杆菌表达的天冬氨酸激酶, 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。
- Aspartate kinase (aspartokinase, aspartic kinase) is an enzyme that catalyzes the phosphorylation of the amino acid aspartate. This reaction is the first step in the biosynthesis of three essential amino acids: methionine, lysine, and threonine, known as the "aspartate family". The gene for aspartokinase is present only in microorganisms and plants; it is not present in animals, which must obtain aspartate-family amino acids in their diet. In *Escherichia coli*, aspartokinase is present as three independently regulated isozymes, each of which is specific to one of the three downstream biochemical pathways. This allows the independent regulation of the rates of methionine, lysine, and threonine production. The forms that produce threonine and lysine are subject to feedback inhibition, and all three can be repressed at the level of gene expression by high concentrations of their end-products. Absence from animals makes these enzymes key targets for new herbicides and biocides and for improvements in nutritional value of crops. 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	Aspartate Kinase (Crude Enzyme); 天冬氨酸激酶(粗酶液)
Application	催化天冬氨酸的磷酸化
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	Aspartate Kinase; 天冬氨酸激酶
CAS Number	9012-50-4
EC Number	2.7.2.4
Enzymatic Reaction	ATP + L-aspartate = ADP + 4-phospho-L-aspartate
Synonyms	aspartokinase; AK; β -aspartokinase; aspartic kinase
Systematic name	ATP:L-aspartate 4-phosphotransferase
Cofactor(s)	-
Application	agriculture

包装清单:

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P3685-100ml	Aspartate Kinase (Crude Enzyme)	100ml
P3685-1L	Aspartate Kinase (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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