



碧云天生物技术/Beyotime Biotechnology  
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## Nucleoside-Diphosphate Kinase (Crude Enzyme)

产品编号	产品名称	包装
P3694-100ml	Nucleoside-Diphosphate Kinase (Crude Enzyme)	100ml
P3694-1L	Nucleoside-Diphosphate Kinase (Crude Enzyme)	1L

### 产品简介:

- Nucleoside-Diphosphate Kinase, 中文名为核苷二磷酸激酶, 催化腺苷三磷酸(adenosine triphosphate, ATP)和核苷二磷酸(nucleoside diphosphate, NDP)之间的磷酸基团转移反应来维持生物体细胞内的NTP浓度。本产品为大肠杆菌表达的核苷二磷酸激酶, 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。
- Nucleoside-diphosphate kinases (NDPKs, also NDP Kinase, (poly)nucleotide kinases and nucleoside diphosphokinases) are enzymes that catalyze the exchange of terminal phosphate between different nucleoside diphosphates (NDP) and triphosphates (NTP) in a reversible manner to produce nucleotide triphosphates. Many NDP serve as acceptor while NTP are donors of phosphate group. The general reaction via ping-pong mechanism is as follows:  $NDP + YTP \rightleftharpoons NTP + YDP$  (X and Y each represent different nitrogenous base). NDPK activities maintain an equilibrium between the concentrations of different nucleoside triphosphates such as, for example, when guanosine triphosphate (GTP) produced in the citric acid (Krebs) cycle is converted to adenosine triphosphate (ATP). Other activities include cell proliferation, differentiation and development, signal transduction, G protein-coupled receptor, endocytosis, and gene expression. 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	Nucleoside-Diphosphate Kinase (Crude Enzyme); 核苷二磷酸激酶(粗酶液)
Application	催化腺苷三磷酸(adenosine triphosphate,ATP)和核苷二磷酸(nucleoside diphosphate,NDP)之间的磷酸基团转移
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	Nucleoside-Diphosphate Kinase; 核苷二磷酸激酶
CAS Number	9026-51-1
EC Number	2.7.4.6
Enzymatic Reaction	$ATP + \text{nucleoside diphosphate} = ADP + \text{nucleoside triphosphate}$
Synonyms	nucleoside 5'-diphosphate kinase; nucleoside diphosphate (UDP) kinase; nucleoside diphosphokinase; nucleotide phosphate kinase; UDP kinase; uridine diphosphate kinase
Systematic name	ATP:nucleoside-diphosphate phosphotransferase
Cofactor(s)	ATP
Application	medicine

### 包装清单:

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P3694-1L	Nucleoside-Diphosphate 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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