



碧云天生物技术/Beyotime Biotechnology
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L-Glutamate Dehydrogenase (Crude Enzyme)

产品编号	产品名称	包装
P3573-100ml	L-Glutamate Dehydrogenase (Crude Enzyme)	100ml
P3573-1L	L-Glutamate Dehydrogenase (Crude Enzyme)	1L

产品简介:

- L-Glutamate Dehydrogenase, 中文名为谷氨酸脱氢酶, 催化L-谷氨酸脱氢, 多用于临床肝病的生化检查。本产品为大肠杆菌表达的谷氨酸脱氢酶, 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。
- Glutamate dehydrogenase (GLDH) is an enzyme, present in most microbes and the mitochondria of eukaryotes, as are some of the other enzymes required for urea synthesis, that converts glutamate to α -ketoglutarate, and vice versa. In animals, the produced ammonia is usually used as a substrate in the urea cycle. Typically, the α -ketoglutarate to glutamate reaction does not occur in mammals, as glutamate dehydrogenase equilibrium favours the production of ammonia and α -ketoglutarate. Glutamate dehydrogenase also has a very low affinity for ammonia (high Michaelis constant of about 1 mM), and therefore toxic levels of ammonia would have to be present in the body for the reverse reaction to proceed (that is, α -ketoglutarate and ammonia to glutamate and NAD(P)^+). In bacteria, the ammonia is assimilated to amino acids via glutamate and aminotransferases. In plants, the enzyme can work in either direction depending on environment and stress. Transgenic plants expressing microbial GLDHs are improved in tolerance to herbicide, water deficit, and pathogen infections. They are more nutritionally valuable. 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	L-Glutamate Dehydrogenase (Crude Enzyme); 谷氨酸脱氢酶(粗酶液)
Application	催化L-谷氨酸脱氢
Appearance	Clear to translucent yellow solution
Enzyme activity	Undetermined
About this enzyme	
Name	L-Glutamate Dehydrogenase; 谷氨酸脱氢酶
CAS Number	9001-46-1
EC Number	1.4.1.2
Enzymatic Reaction	$\text{L-glutamate} + \text{H}_2\text{O} + \text{NAD}^+ = 2\text{-oxoglutarate} + \text{NH}_3 + \text{NADH} + \text{H}^+$
Synonyms	glutamic dehydrogenase; glutamate dehydrogenase (NAD); glutamate oxidoreductase; glutamic acid dehydrogenase; L-glutamate dehydrogenase; NAD-dependent glutamate dehydrogenase; NAD-dependent glutamic dehydrogenase; NAD-glutamate dehydrogenase; NAD-linked glutamate dehydrogenase; NAD-linked glutamic dehydrogenase; NAD-specific glutamic dehydrogenase; NAD-specific glutamate dehydrogenase; NAD:glutamate oxidoreductase; NADH-linked glutamate dehydrogenase
Systematic name	L-glutamate:NAD ⁺ oxidoreductase (deaminating)
Cofactor(s)	NAD ⁺ ; NADH; NADP ⁺ ; NADPH
Application	biotechnology; diagnostics; medicine; molecular biology; analysis; agriculture; diagnostics

包装清单:

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P3573-1L	L-Glutamate Dehydrogenase (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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