



碧云天生物技术/Beyotime Biotechnology  
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## L-丙氨酸(99.0-101.0%, BioPremium)

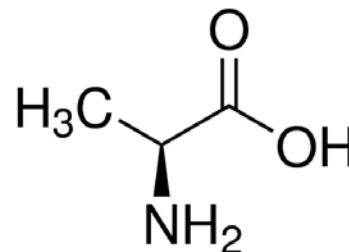
产品编号	产品名称	包装
ST1496-250g	L-丙氨酸(99.0-101.0%, BioPremium)	250g
ST1496-1kg	L-丙氨酸(99.0-101.0%, BioPremium)	1kg
ST1496-5kg	L-丙氨酸(99.0-101.0%, BioPremium)	5kg

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
56-41-7	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>	89.09	99.0-101.0%	BioPremium

### ➤ 基本信息(General Information):

Name (Chinese)	L-丙氨酸
Name (English)	L-Alanine
Specifications	BioPremium, meets FCC, USP, EP, JP testing specifications, suitable for cell culture, ≥99%, from non-animal source
Chemical Formula	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>
Synonym (Chinese)	2-氨基丙酸
Synonym (English)	L-Alanine (1.00963); L-2-Amino Propanoic Acid; H-L-Ala-OH; L-2-Aminopropionic acid
Beilstein Registry No.	1720248
EINECS Number	200-273-8
MDL Number	MFCD00064410
PubChem Number	24891241
eCl@ss	32160406
NACRES	NA.26



### ➤ 产品描述(Description):

General description	-
Biochem/physiol Actions	L-Alanine is a nonessential amino acid, which is highly concentrated in muscle. It is a key player in the Glucose-Alanine cycle, which enables the removal of pyruvate and glutamate from muscle to the liver. Once in the liver, glucose is regenerated from pyruvate and returned to the muscle while glutamate ultimately participates in the urea cycle to form urea. The Glucose-Alanine cycle aides to conserve ATP in muscle for muscle contraction, while the energy burden of gluconeogenesis is imposed upon the liver. Alanine inhibits pyruvate kinase to regulate gluconeogenesis and glycolysis in order to maintain glucose homeostasis during starvation. Alanine prevents hepatic autophagy. Alanine formation is a result of transamination of glutamate and pyruvate.
Application	L-Alanine has been used for tissue culture technique as a media component. It has been used as a media component for the growth of adult mouse keratinocytes.
Other Notes	-

### ➤ 性质(Properties):

assay	99.0-101.0%
mp	297°C (dec.) (lit.)
bp	212.9±23.0°C at 760 mmHg (Predicted)

density	1.432 g/cm <sup>3</sup>
solubility	H <sub>2</sub> O: 89.1 g/L at 20°C - soluble
PH	5.5-7.0 at 89.1 g/L at 25°C
grade	BioPremium
color	白色
form	powder
quality	meets USP, EP and JP Testing Specifications
suitability	suitable for cell culture
biological source	from non-animal source
application(S)	peptide synthesis pharmaceutical (small molecule)

➤ **安全信息(Safety Information):**

Pictogram(s)	No symbol.
Signal Word	No signal word
Hazard Statements	none
Precautionary statement(s) Prevention	none
Personal Protective Equipment	dust mask type N95 (US), Eyeshields, Gloves
Other hazards	none
RIDADR	NONH for all modes of transport
WGK	1
RTECS	AY2990000
Flash Point (F)	-
Flash Point (C)	-
SMILES string	C[C@H](N)C(O)=O
InChI	1S/C3H7NO2/c1-2(4)3(5)6/h2H,4H2,1H3,(H,5,6)/t2-/m0/s1
InChI key	QNAYBMKLOCPYGJ-REOHCLBHSA-N
Response	none
Storage Class Code	11 - Combustible Solids
Disposal	none
TSCA	Yes

**包装清单:**

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—	说明书	1份

**保存条件:**

室温避光保存。

**注意事项:**

- 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。

Version 2023.06.15