



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

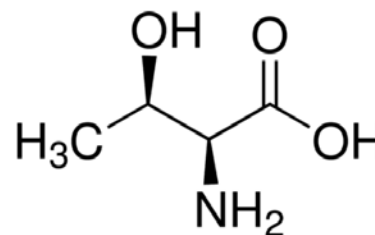
产品编号	产品名称	包装
ST1472-250g	L-苏氨酸(99.0-101.0%, BioPremium)	250g
ST1472-1kg	L-苏氨酸(99.0-101.0%, BioPremium)	1kg
ST1472-5kg	L-苏氨酸(99.0-101.0%, BioPremium)	5kg

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
72-19-5	C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>	119.1192	99.0-101.0%	BioPremium

### ➤ 基本信息(General Information):

Name (Chinese)	L-苏氨酸
Name (English)	L-Threonine
Specifications	BioPremium, meets FCC, USP, EP, JP testing specifications, suitable for cell culture, ≥99%, from non-animal source
Chemical Formula	C <sub>4</sub> H <sub>9</sub> NO <sub>3</sub>
Synonym (Chinese)	L-羟基丁氨酸 (2S,3R)-2-氨基-3-羟基丁酸; L-α-氨基-β-羟基丁酸; L-异赤藻氨酸L-α-氨基-β-羟基丁酸
Synonym (English)	(2S,3R)-2-Amino-3-hydroxybutyric acid; L-α-Amino-β-hydroxybutyric acid
Beilstein Registry No.	1721646
EINECS Number	200-774-1
MDL Number	MFCD00064270
PubChem Number	24900531
eCl@ss	32160406
NACRES	NA.26



### ➤ 产品描述(Description):

General description	L-Threonine is a naturally occurring amino acid belonging to the aspartate family of amino acids.
Biochem/physiol Actions	L-Threonine is considered to be an essential amino acid. L-Threonine is involved in the synthesis of mucin, a protein supporting intestinal function and integrity. L-Threonine is required for the performance of the immune system. It is also essential for O-linked glycosylation, protein phosphorylation and glycine synthesis.
Application	L-Threonine has been used for the following: To study the effect of heat on homoserine kinase activity; In Plackett-Burman analysis and then to study the effect of selected amino acids on monoclonal antibody production in CHO cells; As a substrate to determine the L-threonine dehydrogenase activity; To study the effect of L-Threonine on the growth rate of <i>P. putida</i> , to check for its tolerance towards L-Threonine.
Other Notes	-

### ➤ 性质(Properties):

assay	99.0-101.0%
mp	256°C (dec.) (lit.)
bp	222.38°C at 760 mmHg (rough estimate)
density	1.077 g/cm <sup>3</sup> at 22.5°C

solubility	H <sub>2</sub> O: 59.6 g/L at 20°C - completely soluble
PH	5.0-6.0 at 59.6 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)	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	XO8590000
Flash Point (F)	-
Flash Point (C)	-
SMILES string	C[C@@H](O)[C@H](N)C(O)=O
InChI	1S/C4H9NO3/c1-2(6)3(5)4(7)8/h2-3,6H,5H2,1H3,(H,7,8)/t2-,3+/m1/s1
InChI key	AYFVYJQAPQTCCC-GBXIJSLDSA-N
Response	none
Storage Class Code	13 - Non 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。

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