



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

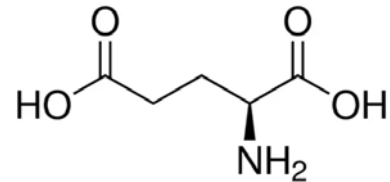
产品编号	产品名称	包装
ST1482-250g	L-谷氨酸(99.0-101.0%, BioPremium)	250g
ST1482-1kg	L-谷氨酸(99.0-101.0%, BioPremium)	1kg
ST1482-5kg	L-谷氨酸(99.0-101.0%, BioPremium)	5kg

### 产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
56-86-0	C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>	147.13	99.0-101.0%	BioPremium

### ➤ 基本信息(General Information):

Name (Chinese)	L-谷氨酸
Name (English)	L-Glutamic acid
Specifications	BioPremium, meets FCC, USP, EP, JP testing specifications, suitable for cell culture, ≥99%, from non-animal source
Chemical Formula	C <sub>5</sub> H <sub>9</sub> NO <sub>4</sub>
Synonym (Chinese)	(S)-2-氨基戊二酸; 麸氨酸
Synonym (English)	H-Glu-OH
Beilstein Registry No.	1723801
EINECS Number	200-293-7
MDL Number	MFCD00002634
PubChem Number	24895340
eCl@ss	32160406
NACRES	NA.26



### ➤ 产品描述(Description):

General description	-
Biochem/physiol Actions	Glutamic acid, or glutamate, the salt form of glutamic acid, functions as a neurotransmitter and also serves as a precursor to other neurotransmitters such as $\gamma$ -aminobutyric acid. Glutamic acid also plays a key role in many metabolic pathways, that controls growth, reproduction, maintenance and immunity. It is converted to $\alpha$ -ketoglutarate, a key component of the TCA (tricarboxylic acid) cycle, and a precursor for the biosynthesis of nucleic acids and certain amino acids. In cells, glutamine is converted to glutamate by the enzyme glutaminase. Glutamine serves as a source of energy for rapidly dividing cells comprising lymphocytes, enterocytes, macrophages and tumors. Glutamine mediates protein turnover via cellular mTOR (mammalian target of rapamycin) signaling. It is also known to be associated with the inhibition of apoptosis. An excitatory amino acid neurotransmitter that is an agonist at all subtypes of glutamate receptors (metabotropic, kainate, NMDA, and AMPA).
Application	L-Glutamic acid has been used as a supplement in for cell culture media to culture hippocampal neurons and hT-PA (human tissue plasminogen activation) producing cell line.
Other Notes	-

### ➤ 性质(Properties):

assay	99.0-101.0%
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mp	205°C (dec.) (lit.)
bp	267.21°C at 760 mmHg (rough estimate)
density	1.54 g/cm <sup>3</sup> at 20°C
solubility	H <sub>2</sub> O: 8.64 g/L at 25°C - soluble
PH	3.0-3.5 (8.6 g/L, H <sub>2</sub> O, 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	LZ9700000
Flash Point (F)	-
Flash Point (C)	-
SMILES string	<chem>N[C@@H](CCC(O)=O)C(O)=O</chem>
InChI	1S/C5H9NO4/c6-3(5(9)10)1-2-4(7)8/h3H,1-2,6H2,(H,7,8)(H,9,10)/t3-/m0/s1
InChI key	WHUUTDBJXJRKMK-VKHKMYHEASA-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。

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