

L-半胱氨酸(99.0-101.0%, BioPremium)

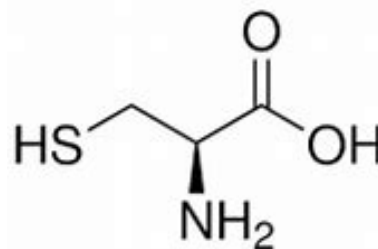
产品编号	产品名称	包装
ST1489-50g	L-半胱氨酸(99.0-101.0%, BioPremium)	50g
ST1489-250g	L-半胱氨酸(99.0-101.0%, BioPremium)	250g
ST1489-1kg	L-半胱氨酸(99.0-101.0%, BioPremium)	1kg
ST1489-5kg	L-半胱氨酸(99.0-101.0%, BioPremium)	5kg

产品简介:

CAS Number	Chemical Formula	Molecular Weight	Purity	Grade
52-90-4	C ₃ H ₇ NO ₂ S	121.16	99.0-101.0%	BioPremium

➤ 基本信息(General Information):

Name (Chinese)	L-半胱氨酸
Name (English)	L-Cysteine
Specifications	BioPremium, meets FCC, USP, EP, JP testing specifications, suitable for cell culture, ≥99%, from non-animal source
Chemical Formula	C ₃ H ₇ NO ₂ S
Synonym (Chinese)	L-半胱氨酸; L-2-氨基-3-巯基丙酸; (R)-2-氨基-3-巯基丙酸;
Synonym (English)	H-CYS-OH; H-Cys-OH; CYSH; FEMA 3263; Cystein; L-Cysteine; E 920; L-Cys; CYSTEINE; (R)-2-Amino-3-mercaptopropionic acid; CYS; Thioserine
Beilstein Registry No.	1721408
EINECS Number	200-158-2
MDL Number	MFCD00064306
PubChem Number	24892959
eCl@ss	32160406
NACRES	NA.75



➤ 产品描述(Description):

General description	<p>L-Cysteine is one of the sulfur containing proteinogenic amino acid incorporated into proteins as directed by the genetic code. The thiol-side chain participates in a variety of oxidation/reduction reactions within the cell. The side chain participates in the formation of β bonds that modulate the secondary and tertiary structure of proteins. L-Cysteine is an essential precursor for inorganic sulfates, coenzyme A. Cysteine is an essential and limiting for the formation of glutathione, an important antioxidant, within the cell. Mammalian liver can synthesize L-cysteine and is a semi-essential amino acid. L-cysteine prevents oxidation of nerve cells, aids in maintaining the stability and rigidity of connective tissues. L-cysteine speeds up the healing process of the body and reduces inflammatory reactions. L-cysteine protects testis partially against acrylamide induced toxicity. L-cysteine can prevent DNA damage during cryopreservation and preserves semen quality.</p> <p>L-Cysteine is a proteinogenic amino acid incorporated into proteins as directed by the genetic code. The thiol-side chain participates in a variety of oxidation/reduction reactions within the cell. The side chain participates in the formation of β bonds that modulate the secondary and tertiary structure of proteins. Cysteine is essential and</p>
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	limiting for the formation of glutathione, an important antioxidant, within the cell.
Biochem/physiol Actions	NMDA glutamatergic receptor agonist.
Application	L-Cysteine has been used: as a media supplement in Trypticase-Yeast Extract-Iron-Serum (TYI-S-33) media for the culture of Giardia lamblia, to make enzyme solution in Dulbecco's modified Eagles medium (DMEM) to establish hippocampus culture to test its protective effect on acrylamide induced toxicity in testis in the preparation of tris acetic acid extender solution for cryopreservation of semen as an additive to make papain digestion solution
Other Notes	-

➤ **性质(Properties):**

assay	99.0-101.0%
mp	240°C (dec.) (lit.)
bp	293.9°C at 760 mmHg
density	1.66 g/cm ³ at 45°C
solubility	H ₂ O: 25 g/L at 25°C - soluble
PH	4.5-5.5 (2.5% in H ₂ O)
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)	-

➤ **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	HA1600000
Flash Point (F)	-
Flash Point (C)	-
SMILES string	N[C@@H](CS)C(O)=O
InChI	1S/C3H7NO2S/c4-2(1-7)3(5)6/h2,7H,1,4H2,(H,5,6)/t2-/m0/s1
InChI key	XUJNEKJLAYXESH-REOHCLBHSA-N
Response	none
Storage Class Code	11 - Combustible Solids
Disposal	none
TSCA	Yes

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—	说明书	1份
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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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