

L-Cysteine, G-BSA-conjugated

DAG3280 chemosynthetic

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	L-Cysteine, G-BSA-conjugated
Description	L-Cysteine, Conjugated
Species	chemosynthetic
Specificity	L-Cysteine conjugated with glutaraldehyde (G) and bovine serum albumin (BSA).
Conjugate	G-BSA
Form	Lyophilized (1 mg); Lyophilized and reconstituted in deionized water (250 µg)
Applications	immunohistochemistry and immunocytochemistry.
Usage	This antigen was used to produce a polyclonal antibody.
Quality Control Test	250 micrograms, 1 milligram

PACKAGING

Storage	Store at -20°C for one year. Reconstitute with deionized H ₂ O + 0.1% merthiolate (optional preservative). This solution is stable at +4°C for 15 days.
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BACKGROUND

Introduction	Cysteine is an α-amino acid with the chemical formula HO ₂ CCH(NH ₂)CH ₂ SH. It is a semi-essential amino acid, which means that it can be biosynthesized in humans. The thiol side chain in cysteine often participates in enzymatic reactions, serving as a nucleophile. The thiol is susceptible to oxidation to give the disulfide derivative cystine, which serves an important structural role in many proteins. When used as a food additive, it has the E-number E920.
Keywords	Cysteine; Cys; C; Thioserine; E 920; b-Mercaptoalanine; L-Cysteine-1-13C

REFERENCES

1. Weast, Robert C., ed. (1981). CRC Handbook of Chemistry and Physics (62nd ed.). Boca Raton, FL: CRC Press. p. C-259.
2. Martens, Jürgen; Offermanns, Heribert; Scherberich, Paul (1981), "Facile Synthesis of Racemic Cysteine", Angew. Chem. Int. Ed. Engl. 20 (8): 668.