D-Cysteine, BSA-conjugated

DAG3282 chemosynchetic
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	D-Cysteine, BSA-conjugated
Description	D-Cysteine, Conjugated
Species	chemosynchetic
Specificity	D-Cysteine conjugated with glutaraldehyde (G) and bovine serum albumin (BSA).
Conjugate	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 H2O + 0.1% merthiolate (optional preservative). This solution is stable at +4°C for 15 days.

BACKGROUND

Introduction	Cysteine is an α-amino acid with the chemical formula HO2CCH(NH2)CH2SH. 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 oxidization 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.

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