

Cystathionine gamma-lyase, Recombinant

Cat. No. NATE-1144

Lot. No. (See product label)

Introduction

Description

Cystathionine gamma-lyase (CGL), or cystathionase (CSE, EC 4.4.1.1), the enzyme participating in the synthesis of cysteine, catalyzes cystathionine deamination action, and form cysteine, alpha ketone butyric acid and NH₃. In some bacteria and mammals, including humans, this enzyme takes part in generating hydrogen sulfide. Hydrogen sulfide is one of a few gases that was recently discovered to have a role in cell signaling in the body.

Applications

H₂S plays an important role in the regulation of the body's microcirculation, especially the regulation of physiological/pathological processes and related syndromes in the cardiovascular system. Because of the close relationship between CGL and H₂S, the study on CGL is of great significance.

Synonyms

Cystathionine gamma-lyase; CGL; cystathionase; CSE; EC 4.4.1.1; homoserine deaminase; homoserine dehydratase; cystine desulfhydrase; cysteine desulfhydrase; γ-cystathionase; cystathionase; homoserine deaminase-cystathionase; γ-CTL; cystalysin; cysteine lyase; L-cystathionine cysteine-lyase (deaminating); cystathionine γ-lyase

Product Information

Appearance

Yellowish liquid (or lyophilized powder)

EC Number

EC 4.4.1.1

CAS No.

9012-96-8

Molecular Weight

About 44kDa (SDS-PAGE detection)

Purity

>90% (SDS-PAGE test)

pH Stability

7.0 - 9.0

Buffer

Phosphate buffer, pH 7.4

Storage and Shipping Information

Storage

4°C, store at -20°C for long-term preservation.