

Cystathionine β -lyase, Recombinant

Cat. No. NATE-1146

Lot. No. (See product label)

Introduction

Description

In enzymology, a cystathionine beta-lyase (EC 4.4.1.8) is an enzyme that catalyzes the chemical reaction: L-cystathionine + H₂O \leftrightarrow L-homocysteine + NH₃ + pyruvate. Thus, the two substrates of this enzyme are L-cystathionine and H₂O, whereas its 3 products are L-homocysteine, NH₃, and pyruvate. This enzyme belongs to the family of lyases, specifically the class of carbon-sulfur lyases.

Applications

This protein can be used for producing Hcy in vitro diagnosis Kit .

Synonyms

L-cystathionineL-homocysteine-lyase (deaminating; pyruvate-forming); beta-cystathionase; cystine lyase; cystathionine L-homocysteine-lyase (deaminating); L-cystathionineL-homocysteine-lyase (deaminating); Cystathionine β -lyase; EC 4.4.1.8

Product Information

Appearance Lyophilized powder or liquid

EC Number EC 4.4.1.8

CAS No. 9055-05-4

Molecular Weight 56KD

Purity >90% (by SDS-PAGE)

Isoelectric point 6.49

pH Stability 7.0-9.0

Buffer PBS, pH7.4

Storage and Shipping Information

Storage The lyophilized powder should be stored at -20°C where it is stable for up to several years. The solution could be stored at 4°C where it is stable for up to 1 year. Repeated freezing and thawing cycles of the reconstituted solution is not recommended .