

Homocysteine Lyase, Recombinant

Cat. No. NATE-1685

Lot. No. (See product label)

Introduction

Description

In enzymology, a homocysteine desulfhydrase (EC 4.4.1.2) is an enzyme that catalyzes the chemical reaction: L-homocysteine + H₂O → hydrogen sulfide + NH₃ + 2-oxobutanoate. Thus, the two substrates of this enzyme are L-homocysteine and H₂O, whereas its 3 products are hydrogen sulfide, NH₃, and 2-oxobutanoate. This enzyme belongs to the family of lyases, specifically the class of carbon-sulfur lyases. This enzyme participates in nitrogen metabolism and sulfur metabolism. It employs one cofactor, pyridoxal phosphate.

Synonyms

L-homocysteine hydrogen-sulfide-lyase (deaminating 2-oxobutanoate-forming); homocysteine desulfurase; L-homocysteine hydrogen-sulfide-lyase; Homocysteine desulfhydrase; Homocysteine Lyase; EC 4.4.1.2; 9024-41-3

Product Information

Source

Microorganism

Form

liquid / lyophilized

EC Number

EC 4.4.1.2

CAS No.

9024-41-3

Purity

90% (SDS-PAGE test)

Storage and Shipping Information

Storage

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