

## cystathionine $\gamma$ -synthase

Cat. No. EXWM-2784

Lot. No. (See product label)

### Introduction

#### Description

A pyridoxal-phosphate protein. Also reacts with hydrogen sulfide and methanethiol as replacing agents, producing homocysteine and methionine, respectively. In the absence of thiol, can also catalyse  $\beta,\gamma$ -elimination to form 2-oxobutanoate, succinate and ammonia.

#### Synonyms

O-succinyl-L-homoserine succinate-lyase (adding cysteine); O-succinylhomoserine (thiol)-lyase; homoserine O-transsuccinylase; O-succinylhomoserine synthase; O-succinylhomoserine synthetase; cystathionine synthase; cystathionine synthetase; homoserine transsuccinylase; 4-O-succinyl-L-homoserine:L-cysteine S-(3-amino-3-carboxypropyl)transferase

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 2.5.1.48

**CAS No.** 9030-70-0

**Reaction** O4-succinyl-L-homoserine + L-cysteine = L-cystathionine + succinate

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

### Storage and Shipping Information

**Storage** Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.