

## Cystathionine-β-synthase, Recombinant

Cat. No. DIA-293

Lot. No. (See product label)

### Introduction

#### Description

Cystathionine-β-synthase, also known as CBS, is an enzyme (EC 4.2.1.22) that in humans is encoded by the CBS gene. CBS uses the cofactor pyridoxal-phosphate (PLP) and can be allosterically regulated by effectors such as the ubiquitous cofactor S-adenosyl-L-methionine (adoMet). This enzyme belongs to the family of lyases, to be specific, the hydro-lyases, which cleave carbon-oxygen bonds. CBS is a multidomain enzyme composed of an N-terminal enzymatic domain and two CBS domains. The CBS gene is the most common locus for mutations associated with homocystinuria.

#### Applications

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

#### Synonyms

Cystathionine-β-synthase; CBS; EC 4.2.1.22; 9023-99-8

### Product Information

**Appearance** Lyophilized powder

**EC Number** EC 4.2.1.22

**CAS No.** 9023-99-8

**Molecular Weight** 56 KD

**Purity** >90% (by SDS-PAGE)

**Isoelectric point** 6.49

**pH Stability** 7.4-8.5

**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 .