Creative Enzymes®

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 .