

Cystathionine β Synthase from Human, recombinant

Cat. No. NATE-1667 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.
Synonyms	Cystathionine- β -synthase; CBS; EC 4.2.1.22; 9023-99-8; Cystathionine β -synthase; Beta-thionase; methylcysteine synthase; serine sulfhydrase
Product Information	
Species	Human
Source	E. coli
Form	Liquid
EC Number	EC 4.2.1.22
Molecular Weight	61.9 kDa (1-551 aa, NT His Tag)
Purity	> 90% by SDS-PAGE
Activity	100 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to convert 1.0 nmole of L- homocysteine to cystathionine and hydrogen sulfide per minute in 200 mM Tris pH 8.6 at 37 °C.
Storage and Shipping Information	
Storage	Store at -20°C.

Stability

Stable for at least 1 year as supplied. Avoid repeated freeze and thaw cycles.