

Recombinant Cystathionine β synthase (CBS)

Product Information

Cat#	BDE-050
Description	Cystathionine β -synthase (CBS) is a cytoplasmic homotetramer (63 kDa subunits) and a PLP-dependent enzyme that condenses serine and homocysteine to form cystathionine. As a key regulator of Hcy levels, CBS is essential in the transsulfuration pathway and is used in enzymatic cycling assays for Hcy detection.
Applications	Used in homocysteine assay kits as a key coupling enzyme in a cyclic amplification detection system.
Enzyme Commission Number	EC 4.2.1.22
Form	Slightly yellow, yellow powder, or liquid
Source	Recombinant microbial proteins
Activity	250 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to catalyze a reaction that causes a decrease of 0.01 in the absorbance of NADH at 340 nm per minute under specified assay conditions (37 °C, pH 8.0).
Molecular Weight	56 kDa (SDS-PAGE)
Purity	\geq 90% by SDS-PAGE
Optimum pH	7.4-8.5
Isoelectric Point	6.49
Storage Buffer	Phosphate buffer, pH 7.4
Storage	Store at 4°C for one year; store at -20°C or -80°C for at least two years. Avoid repeated freeze-thaw cycles as much as possible.