

Native Cystathionine- β -lyase (CBL) from Microorganism

Product Information

Cat#	BDE-020
Specification	5 KU, 50 KU, 500 KU
Description	Cystathionine- β -lyase (CBL) cleaves cystathionine to produce cysteine and plays a central role in hydrogen sulfide production and amino acid metabolism.
Applications	Used in the coenzyme system for homocysteine detection to achieve cascading signal amplification.
Enzyme Commission Number	EC 4.4.1.8
Form	Yellow amorphous lyophilized powder
Source	Microorganism
Activity	≥ 30 U/mg
Unit Definition	One unit is defined as the amount of enzyme required to consume 1 μ mol of NADH per minute under specified assay conditions.
Molecular Weight	54 kDa (SDS-PAGE)
Purity	$\geq 90\%$
Optimum pH	8.0
Optimum temperature	50°C
pH Stability	6.0-10.0 (25°C, 16 h)
Thermal Stability	< 45°C (pH 8.0, 30 min)
Isoelectric Point	6.0
Km Value	1.6×10^{-3} M (L-Cystathionine)
Inhibitors	Not inhibited by NaN ₃



Creative Enzymes

Diagnostic Enzymes

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Protectant Triton X-100, glycerol

Storage Store at -25°C to -15°C for 12 months to maintain at least 90% activity.
