

Recombinant Betaine HomocysteineS-methyl Transferase (BHMT)

Product Information

Cat#	BDE-049
Description	Betaine homocysteine S-methyltransferase (BHMT) is a zinc-dependent transferase that catalyzes methyl group transfer in one-carbon metabolism, particularly in homocysteine transmethylation. It regulates plasma Hcy levels, associates with tubulin, and influences apolipoprotein B expression.
Applications	Used in homocysteine assay kits to provide a betaine-dependent methylation pathway.
CAS No.	9029-78-1
Enzyme Commission Number	EC 2.1.1.5
Form	Lyophilized powder or solution
Source	Recombinant microbial proteins
Molecular Weight	47 kDa (SDS-PAGE)
Purity	≥ 90% by SDS-PAGE
Optimum pH	8.0
Optimum temperature	37°C
Isoelectric Point	10.0
Storage Buffer	20 mM Tris, 50 mM glycine, pH 8.0
Storage	Store at 4°C for one year or at -20°C for two years (it is recommended to store in smaller portions and avoid repeated freeze-thaw cycles as much as possible).