Creative Enzymes
Diagnostic Enzymes

Homocysteine Methyltransferase, Recombinant

Product Information

Cat#	NATE-1149
Abbr	HMT, Recombinant
Alias	HMT
Similar	HMT
Description	Homocysteine (Hcy) is a thiol-containing amino acid formed from methionine during S-adenosylmethionine-dependent transmethylation reactions. It has been demonstrated that even mild or moderately elevated levels of Hcyalso increase the risk of atherosclerosis of the coronary, cerebral andperipheral arteries and cardiovascular disease. And currently the hcy level isregarded as the biomarker for cardiovascular disease diagnosis all over the world.
Appearance	White powder, lyophilized
Product Overview	Methyltransferases are a large group of enzymes that all methylate their substrates but can be split into several subclasses based on their structural features. The most common class of methyltransferases is class I, all of which contain a Rossman fold for binding S-Adenosyl methionine (SAM). Methyltransferases can also be grouped as different types utilizing different substrates in methyl transfer reactions. These types include Protein methyltransferases, DNA methyltransferases, Natural product methyltransferases, and Non-SAM dependent methyltransferases.
Form	Freeze dried powder
Enzyme Commission Number	EC 2.1.1.10
Activity	>70U/mg
Molecular Weight	About 51kDa (SDS-PAGE detection)
Purity	>90% (SDS-PAGE test)

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Isoelectric point	5.01
pH Stability	6.5-8.5
Storage	Redissolved in 30% glycerol, 4°C, store at -20°C for long-term preservation, Avoid multiple freeze-thaw cycles.
Buffer	Tris buffer, pH8.0
Synonyms	homocysteine S-methyltransferase; S-adenosylmethionine homocysteine transmethylase; S-methylmethionine homocysteine transmethylase; adenosylmethionine transmethylase; methylmethionine:homocysteine methyltransferase; adenosylmethionine:homocysteine methyltransferase; homocysteine methylase; homocysteine methyltransferase; homocysteine transmethylase; L-homocysteine S-methyltransferase; S-adenosyl-L-methionine:L-homocysteine methyltransferase; S-adenosylmethionine-homocysteine transmethylase; S-adenosylmethionine:homocysteine methyltransferase; EC 2.1.1.10

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