

Recombinant Human PCMT1 protein

Cat. No. PCMT1-195H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PCMT1 was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the type II class of protein carboxyl methyltransferase enzymes. The encoded enzyme plays a role in protein repair by recognizing and converting D-aspartyl and L-isoaspartyl residues resulting from spontaneous deamidation back to the normal L-aspartyl form. The encoded protein may play a protective role in the pathogenesis of Alzheimer's disease, and single nucleotide polymorphisms in this gene have been associated with spina bifida and premature ovarian failure. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
Form	25 mM Tris-Cl, pH 7.0, 150 mM NaCl, 5 mM 2-mercaptoethanol, and 10% glycerol.
Notes	It is the human enzyme, but contains a single point mutation which appears to enhance the production yield (25-30 mg per liter of culture) with no effect on activity or stability.
Concentration	1.2 mg/ml (Bradford assay, normalized to absorbance-based concentration of pure PIMT at 280 nm)

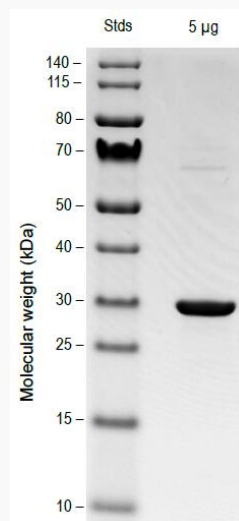
GENE INFORMATION

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Gene Name	PCMT1 protein-L-isoaspartate (D-aspartate) O-methyltransferase [Homo sapiens]
Official Symbol	PCMT1
Synonyms	PCMT1; protein-L-isoaspartate (D-aspartate) O-methyltransferase; protein-L-isoaspartate(D-aspartate) O-methyltransferase; protein-beta-aspartate methyltransferase; L-isoaspartyl protein carboxyl methyltransferase; protein L-isoaspartyl/D-aspartyl methyltransferase; PIMT;
Gene ID	5110
mRNA Refseq	NM_001252049
Protein Refseq	NP_001238978
MIM	176851
UniProt ID	P22061
Chromosome Location	6q22.3-q24
Function	protein-L-isoaspartate (D-aspartate) O-methyltransferase activity; transferase activity;



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