

## Recombinant Human PCMT1, His-tagged

**Cat. No.** PCMT1-704H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human PCMT1 protien, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 28.8 kDa (263aa).                                                                                                                                                                                       |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>              | PCMT1, also known as L-isoaspartyl protein carboxyl methyltransferase, is an enzyme that catalyses the methyl esterification of L-isoaspartyl and D-aspartyl residues in peptides and proteins that result from spontaneous decomposition of normal L-aspartyl and L-asparaginyl residues. This protein plays a role in the repair and/or degradation of damaged proteins. |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl.                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>                   | > 95% by SDS – PAGE.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                    |
| <b>Sequences Of Amino Acids</b> | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMARK SGGASHSELI<br>HNLRKNGIIK TDKVFEVMLA TDRSHYAKCN PYMDSPQSIG FQATISAPHM<br>HAYALELLFD QLHEGAKALD VGSGSGILTA CFARMVGCTG KVGIDHIKE<br>LVDDSINNVR KDDPTLLSSG RVQLVVG DGR MGYAEEAPYD AIHVGAAAPV<br>VPQALIDQLK PGGRILPVG PAGGNQM LEQ YDKLQDGSIK MKPLMGVIYV                                                                             |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PLTDKEKQWS RWK.

#### Storage

can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

#### Gene Name

PCMT1 protein-L-isoaspartate (D-aspartate) O-methyltransferase [ Homo sapiens ]

#### Synonyms

protein-L-isoaspartate (D-aspartate) O-methyltransferase; PCMT1; protein-L-isoaspartate(D-aspartate) O-methyltransferase; PIMT; OTTHUMP00000017397; OTTHUMP00000017398; OTTHUMP00000017400; protein-beta-aspartate methyltransferase; L-isoaspartyl/D-aspartyl methyltransferase; L-isoaspartyl protein carboxyl methyltransferase; protein L-isoaspartyl/D-aspartyl methyltransferase;protein-L-isoaspartate (D-aspartate) O-methyltransferase 1; Protein-beta-aspartate methyltransferase; Protein L-isoaspartyl/D-aspartyl methyltransferase; EC 2.1.1.77

#### Gene ID

5110

#### mRNA Refseq

NM\_005389

#### Protein Refseq

NP\_005380

#### MIM

176851

#### UniProt ID

P22061

#### Chromosome Location

6q24-q25

 Tel: 1-631-559-9269 1-516-512-3133

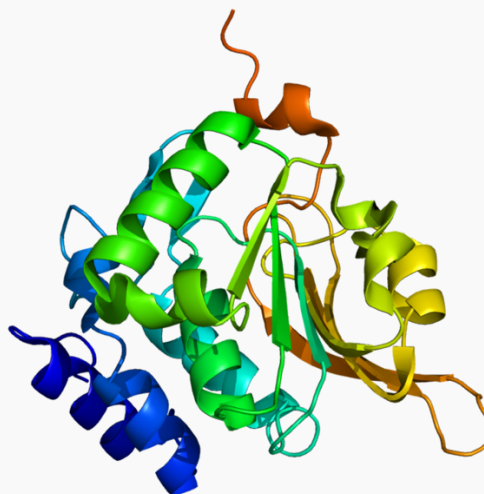
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Function**

identical protein binding; methyltransferase activity; protein binding; transferase activity; protein-L-isoaspartate (D-aspartate) O-methyltransferase activity

**PDB rendering based on 1i1n.**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA