Recombinant human PCMT1 protein

Catalog Number: ATGP0578

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-227aa

UniProt No.
P22061

NCBI Accession No.
AAH08748.1

Alternative Names
Protein-L-isoaspartate D-aspartate O-methyltransferase, PIMT, L-isoaspartyl protein carboxyl methyltransferase, Protein L-isoaspartyl/D-aspartyl methyltransferase, Protein-beta-aspartate methyltransferase

PRODUCT SPECIFICATION

Molecular Weight
28.7 kDa (263aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
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. Recombinant human PCMT1 protien, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

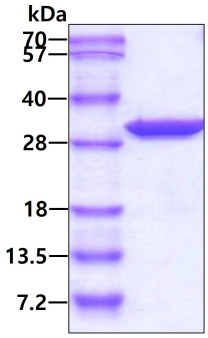
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MAWK SGGASHSELI HNLRKNGIIK TDKVFEVMLA TDRSHYAKCN PYMDSPQSIG FQATISAPHM HAYALELLFD QLHEGAKALD VGSGSGILTA CFARMVGCTG KVIGIDHIKE LVDDSINNVR KDDPTLLSSG RVQLVVGDGR MGYAEEAPYD AIHVGAAAPV VPQALIDQLK PGGRLILPVG PAGGNQMLEQ YDKLQDGSIK MKPLMGVIYV PLTDKEKQWS RWK

General References

Kagan RM., et al. (1997) Comp Biochem Physiol B Biochem Mol Biol. 117(3):379-85.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.