

PNMT recombinant protein

PNMT, Active

CATALOG # AAA73068	HOST Sf9 insect cells using baculovirus	APPLICATIONS Methyltransferase Assay
------------------------------	---	--

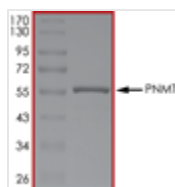
PRODUCT SYNONYMS

PNMT; Active; PNMT recombinant protein

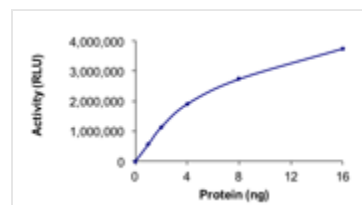
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	958
Applicable Applications for PNMT recombinant protein	Methyltransferase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PNMT recombinant protein	Description: Full-length recombinant human PNMT was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: Phenylethanolamine N-methyltransferase (PNMT) catalyzes the biosynthesis of adrenaline through methylation of phenylethanolamine (1). PNMT gene is reported to be involved in various human diseases including early-onset Alzheimer disease (2), Parkinson's disease (3), and multiple sclerosis (4). Expression of PNMT can be stimulated by nicotine (5).
Product Categories/Family for PNMT recombinant protein	Enzymes; Active Methyltransferases

References	1. Kaneda, N., et al. Molecular cloning of cDNA and chromosomal assignment of the gene for human phenylethanolamine N-methyltransferase, the enzyme for epinephrine biosynthesis. J Biol Chem. 263 (16):7672-7, 1988. 2. Mann, M.B., et al. Phenylethanolamine N-methyltransferase (PNMT) gene and early-onset Alzheimer disease. Am J Med Genet. 105 (4):312-6, 2001. 3. Gearhart, D.A., et al. Phenylethanolamine N-methyltransferase has beta-carboline 2N-methyltransferase activity: hypothetical relevance to Parkinson's disease. Neurochem Int. 40 (7):611-20, 2002. 4. Mann, M.B., et al. Association between the phenylethanolamine N-methyltransferase gene and multiple sclerosis. J Neuroimmunol. 124 (1-2):101-5, 2002. 5. Evinger, M.J., et al. Nicotine stimulates expression of the PNMT gene through a novel promoter sequence. J Mol Neurosci. 26 (1):39-55, 2005.
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	425703051
NCBI GeneID	5409
NCBI Accession #	NM_002686.4
NCBI GenBank Nucleotide #	NM_002686
UniProt Accession #	P11086
Molecular Weight	57 kDa
NCBI Official Full Name	Homo sapiens phenylethanolamine N-methyltransferase (PNMT), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phenylethanolamine N-methyltransferase
NCBI Official Symbol	PNMT
NCBI Official Synonym Symbols	PENT; PNMTase
NCBI Protein Information	phenylethanolamine N-methyltransferase
UniProt Protein Name	Phenylethanolamine N-methyltransferase
UniProt Gene Name	PNMT
UniProt Synonym Gene Names	PENT; PNMTase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.