

Recombinant Human Phenylethanolamine N-methyltransferase

Cat. No. PNMT-481H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PNMT protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 30.8 Da (282aa).
Species	Human
Source	<i>E.coli</i>
Description	PNMT, also known as phenylethanolamine N-methyltransferase, is an enzyme found in the adrenal medulla that catalyzes the last step of the catecholamine biosynthesis pathway, which methylates norepinephrine to form epinephrine (adrenaline). The enzyme also has beta-carboline 2N-methyltransferase activity. This gene is thought to play a key step in regulating epinephrine production.
Amino Acid Sequence	MSGADRSPNA GAAPDSAPGQ AAVASAYQRF EPRAYLRLNNY APPRGDLCNP NGVGPWKLRC LAQTFATGEV SGRTLIDIGS GPTVYQLLSA CSHFEDITMT DFLEVNRQEL GRWLQEEPGE FNWSMYSQHA CLIEGKGECW QDKERQLRAR VKRVLPIVDH QPQPLGAGSP APLPADALVS AFCLEAVSPD LASFQRALDH ITLLRPGGH LLLIGALEES WYLAGEARLT VVPVSEEEVR EALVRSGYKV RDLRTYIMPA HLQTGVDVVK GVFFAWAQKV GL
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1.0 mg/ml (determined by Bradford assay).

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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 PNMT phenylethanolamine N-methyltransferase [Homo sapiens]

Synonyms PNMT; phenylethanolamine N-methyltransferase; PENT; PNMTase; MGC34570; phenylethanolamine N-methyltransferase; phenylethanolamine N-methylase; noradrenaline N-methyltransferase; EC 2.1.1.28; OTTHUMP00000164271

Gene ID 5409

mRNA Refseq NM_002686

Protein Refseq NP_002677

MIM 171190

UniProt ID P11086

Chromosome Location 17q21-q22

Pathway Metabolic pathways; Tyrosine metabolism

Function methyltransferase activity; phenylethanolamine N-methyltransferase activity; transferase activity

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