

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	E.coli
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 EPRAYLRNNY APPRGDLCNP NGVGPWKLRC LAQTFATGEV SGRTLIDIGS GPTVYQLLSA CSHFEDITMT DFLEVNRQEL GRWLQEEPGA FNWSMYSQHA CLIEGKGECW QDKERQLRAR VKRVLPIDVH QPQPLGAGSP APLPADALVS AFCLEAVSPD LASFQRALDH ITLLRPGGH LLLIGALEES WYLAGEARLT VVPVSEEEVR EALVRSGYKV RDLRTYIMPA HLQTVGDDVK 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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