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## Product Data Sheet

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Product Name: PNMT Human

Cat. No.: GP22106

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	PENT; PNMTase; Noradrenaline-N-methyltransferase; Phenylethanolamine N-methyltransferase; PNMT; MGC34570.		
Amino Acid Sequence	MSGADRSPNA GAAPDSAPGQ AAVASAYQRF EPRAYLRNNY APPRGDLCNP NGVGPWKLRC LAQTFATGEV SGRTLIDIGS GPTVYQLLSA CSHFEDITMT DFLEVNRQEL GRWLQEEPGA FNWSMYSQHA CLIEGKGECW QDKERQLRAR VKRVLPIDVH QPQPLGAGSP APLPADALVS AFCLEAVSPD LASFQRALDH ITLLLRPGGH LLLIGALEES WYLAGEARLT VVPVSEEEVR EALVRSYGKY RDLRTYIMPA HLQTGVDDVK GVFFAWAQKV GL.		
Formulation	The PNMT protein solution contains 20mM Tris-HCl, pH-8 & 10% Glycerol.		

**Introduction**

PNMT is an enzyme located in the adrenal medulla and it catalyzes the final step of the catecholamine biosynthesis pathway. PNMT has beta-carboline 2N-methyltransferase activity. PNMT takes part in regulating epinephrine production. Glucocorticoid receptors form multimers of PNMT independent of the DNA binding domain. PNMT expression is regulated late in mouse gestation by AP2-alpha and glucocorticoids.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

Recombinant Human PNMT produced in E.Coli is a single, non-glycosylated polypeptide chain containing 282 amino acids (1-282 a.a.) and having a molecular mass of 30.8 kDa. PNMT is purified by conventional chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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