

PNMT Human

Description: 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 chromatography techniques.

Catalog #: ENPS-464

For research use only.

Synonyms: PENT, PNMTase, Noradrenaline-N-methyltransferase, Phenylethanolamine N-methyltransferase, PNMT, MGC34570.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MSGADRSPNA GAAPDSAPGQ AAVASAYQRF EPRAYLRNNY
APPRGDLCPNGVGPWKLRCLAQTFATGEVSGRTLIDIGSGPTVYQLLSACSHFEDITMT
DFLEVNQRQELGRWLQEEPGA FNWSMYSQHA CLIEGKGECW QDKERQLRARVKRVLPIDVH
QPQPLGAGSPAPLPADALVS AFCLEAVSPDLASFQRALDH ITTLRPGGH LLLIGALEES
WYLAGEARLT VV

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The PNMT protein solution contains 20mM Tris-HCl, pH-8 & 10% Glycerol.

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.

Usage:

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Introduction:

PNMT is an enzyme located in the adrenal medulla and it catalyzes the final step of the catecholamine biosynthesis pathway, which methylates norepinephrine to form epinephrine (adrenaline). 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.

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