

Native Bovine Phenylethanolamine N-Methyl Transferase

Cat. No. NATE-0871

Lot. No. (See product label)

Introduction

Description Phenylethanolamine N-methyltransferase (PNMT) is the enzyme which catalyzes

the N-methylation of norepinephrine thereby resulting in the formation of

epinephrine as shown below: Norepinephrine + S-Adenosyl methionine (SAM) ------> Epinephrine. The mechanism involves transfer of an active methyl group from S-

adenosylmethionine (SAM) to the primary amino group of norepinephrine. Although it is primarily localized in the adrenal medulla, PNMT activity has also been

demonstrated in the brain and heart tissues of several mammalian species including humans. PNMT purified from ox, rat and rabbit adrenal medulla have molecular weights in the range of 37,000-38,000. Analysis of PNMT activity could

provide valuable information in the evaluation of catecholamine metabolism.

Synonyms phenylethanolamine N-methyltransferase; noradrenaline N-methyltransferase;

noradrenalin N-methyltransferase; norepinephrine methyltransferase; norepinephrine N-methyltransferase; phenethanolamine methyltransferase; phenethanolamine N-methyltransferase; Phenylethanolamine N-Methyl Transferase; PNMT; S-adenosyl-L-methionine:phenylethanolamine-N-

methyltransferase; EC 2.1.1.28

Product Information

Species Bovine

Source Bovine Adrenal Medulla

Form Freeze-dried powder

EC Number EC 2.1.1.28

Molecular Weight 37-38 kDa

Activity 50-100 U/mg protein

Unit Definition The amount of enzyme which will convert one nanomole of normetanephrine to

metanephrine per hour at pH 8.5 at 37°C.

Storage and Shipping Information

Stability Store at -20°C (-4°F)

Tel: 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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