

Active Recombinant Human PNMT Protein, His-tagged

Cat. No. PNMT-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PNMT Protein (Met1-Leu282) with a C-terminal 6-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-282 a.a.
Description	The product of this gene 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. Alternatively spliced transcript variants have been found for this gene.
Bio-activity	Measured by its S-Adenosyl-L-Methionine (SAM)-dependent ability to transfer a methyl group to norepinephrine. The specific activity is >2.5 pmol/min/μg.
Molecular Mass	32 kDa
N-terminal Sequence Analysis	Ser2
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Tris, EDTA, Brij-35 and Glycerol.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	PNMT phenylethanolamine N-methyltransferase [Homo sapiens (human)]
Official Symbol	PNMT
Synonyms	PNMT; phenylethanolamine N-methyltransferase; PENT; PNMTase; phenylethanolamine N-methyltransferase; noradrenaline N-methyltransferase; phenylethanolamine N-methylase; EC 2.1.1.28
Gene ID	5409
mRNA Refseq	NM_002686
Protein Refseq	NP_002677
MIM	171190
UniProt ID	P11086