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Recombinant human PNMT protein

Catalog Number: ATGP0417

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-282aa

UniProt No.
P11086

NCBI Accession No.
NP_002677

Alternative Names
Phenylethanolamine N-methyltransferase, PENT, PNMTase, Noradrenaline-N-methyltransferase, Phenylethanolamine N-methyltransferase

PRODUCT SPECIFICATION

Molecular Weight
30.8 kDa (282aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant PNMT protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

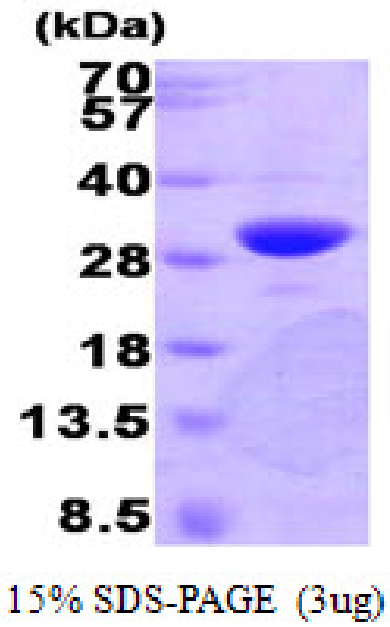
MSGADRSPNA GAAPDSAPGQ AAVASAYQRF EPRAYLRNNY APPRGDLCNP NGVGPWKLRC LAQTFATGEV SGRTLIDIGS GPTVYQLLSA CSHFEDITMT DFLEVNRQEL GRWLQEEPGA FNWSMYSQHA CLIEGKGECW QDKERQLRAR VKRVLPIDVH QPQPLGAGSP APLPADALVS AFCLEAVSPD LASFQRALDH ITTLLRPGGH LLLIGALEES WYLAGEARLT VVPVSEEEVR EALVRSGYKV RDLRTYIMPA HLQTGVDDVK GVFFAWAQKV GL

General References

Kaneda N., et al. (1998) Biochem Biophys Res Commun. 249(2):405-9.
Ji Y., et al. (2005) J. Neurochem. 95:1766-1776.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.