

Recombinant Rat Pam Protein, His-tagged

Cat. No. Pam-1169R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Pam Protein (Phe36-Val820) with His tag was expressed in 293F.
Species	Rat
Source	HEK293
ProteinLength	Phe36-Val820
Description	Enables several functions, including metal ion binding activity; peptidylamidoglycolate lyase activity; and peptidylglycine monooxygenase activity. Involved in several processes, including animal organ development; fatty acid primary amide biosynthetic process; and peptide amidation. Located in several cellular components, including perikaryon; secretory granule membrane; and trans-Golgi network. Biomarker of hypothyroidism. Orthologous to human PAM (peptidylglycine alpha-amidating monooxygenase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 89.5 kDa; Accurate Molecular Mass: 88 kDa
Purity	> 95%
Applications	Cell culture; Activity Assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

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accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Storage

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

Storage Buffer

PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.

Reconstitution

Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name

Pam peptidylglycine alpha-amidating monooxygenase [*Rattus norvegicus* (Norway rat)]

Official Symbol

Pam

Synonyms

PAM; peptidylglycine alpha-amidating monooxygenase; peptidyl-glycine alpha-amidating monooxygenase;

Gene ID

25508

mRNA Refseq

NM_013000

Protein Refseq

NP_037132

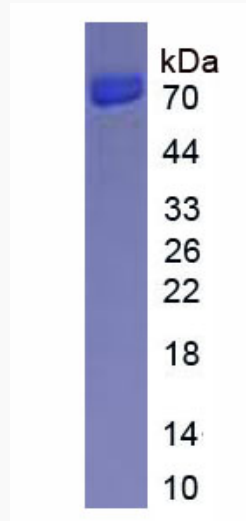
UniProt ID

P14925

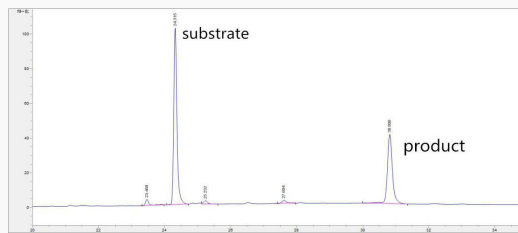
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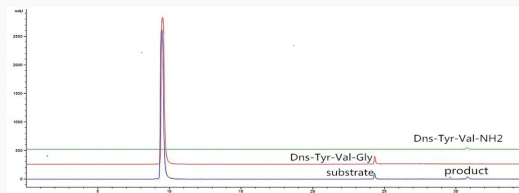
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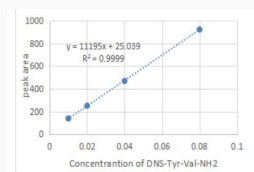
**Recombinant Rat
PAM activity assay
by HPLC.**



**The reaction product
compared with
standard Dns-Tyr-
Val-Gly and Dns-Tyr-
Val-NH2.**



**The standard curve of
Dns-Tyr-Val-NH2.**



DNS-Tyr-Val-NH2 (mg/mL)	PEAK AREA
0.01	138.3
0.02	250.5
0.04	468.2
0.08	922.4

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