

# Recombinant Human PAM Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** PAM-1281H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	PAM MS Standard C13 and N15-labeled recombinant protein (NP_620176) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a multifunctional protein. The encoded preproprotein is proteolytically processed to generate the mature enzyme. This enzyme includes two domains with distinct catalytic activities, a peptidylglycine alpha-hydroxylating monooxygenase (PHM) domain and a peptidyl-alpha-hydroxyglycine alpha-amidating lyase (PAL) domain. These catalytic domains work sequentially to catalyze the conversion of neuroendocrine peptides to active alpha-amidated products. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed.
<b>Molecular Mass</b>	96.3 kDa
<b>AA Sequence</b>	MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTTPFSNECLGTTTRPVVPIDSSDFA LDIRMPGVTPKQSDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSS TGSYWFCDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGGETGSKYFVLQVHYG DISAFRDNNKDCSGVSLHLTRLPQPLIAGMYLMMSVDTVIPAGEKVVNSDISCHYKN YPMHVFAIRVHTHHLGKVVSGYVRNGQWTLIGRQSPQLPQAFYPVGHVPDVSFG

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DLLAARCVFTGEGRTEATHIGGTSSDEMONLYIMYYMEAKHAVSFMTCTQNVAPDM  
 FRTIPPEANIPVKSMDMVMHEHHKETEYKDKIPLLQQPKREEEVLDQDFHMEEA  
 LDWPGVYLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQQIGLGPIED  
 TILVIDPNNAAVLQSSGKNLFYLPGLSIDKDGNYWVTDVALHQVFKLDPNNKEGPV  
 LILGRSMQPGSDQNHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFITQWG  
 EESSGSSPLPGQFTVPHSLALVPLLGLQCVADRENGRIQCFKTDTKEFVREIKHSSF  
 GRNVFAISYIPGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIIDIFKPVRKHFDMPHDI  
 VASEDGTVYIGDAHTNTVWKFTLTEKLEHRSVKKAGIEVQEIKEAEAVVETKMENKP  
 TSSELQKMQEKKLIKEPGSGVPVVLITLLVIPVVLLAIAIFIRWKKSRAFGDSEHKL  
 ETSSGRVLGRFRGKSGGLNLGNFFASRKGYSRKGFDRLSTEGSDQEKEDDGSES  
 EEEYSAPLPALAPSSSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name** PAM peptidylglycine alpha-amidating monooxygenase [ Homo sapiens (human) ]

**Official Symbol** PAM

**Synonyms** PAM; peptidylglycine alpha-amidating monooxygenase; peptidyl-glycine alpha-amidating monooxygenase; PAL; peptidyl alpha hydroxyglycine alpha amidating

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lyase; peptidylglycine alpha hydroxylating monooxygenase; PHM; peptidylamidoglycolate lyase; peptidylglycine 2-hydroxylase; peptidyl alpha-amidating enzyme; peptidylglycine alpha-hydroxylating monooxygenase; peptidyl-alpha-hydroxyglycine alpha-amidating lyase; pancreatic peptidylglycine alpha-amidating monooxygenase;

**Gene ID** 5066

**mRNA Refseq** NM\_138821

**Protein Refseq** NP\_620176

**MIM** 170270

**UniProt ID** P19021

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