

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

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

SPECIFICATION

Product Overview	PAM MS Standard C13 and N15-labeled recombinant protein (NP_620176) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	96.3 kDa
AA Sequence	MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTTPFSNECLGTTTPVVPIDSSDFA LDIRMPGVTPKQSDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSS TGSYWFCDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGGETGSKYFVLQVHYG DISAFRDNNKDCSGVSLHLTRLPLQPLIAGMYLMMSVDTVIPAGEKVVNSDISCHYKN YPMHVFAYRVHTHHLGKVVSGYVRNGQWTLIGRQSPQLPQAFYPVGHPVDVSFG

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DLLAARCVFTGEGRTEATHIGGTSSDEMCNLYIMYYMEAKHAVSFMTCTQNVAPDM
 FRTIPPEANIPVKSMDVMMHEHHKETEKDKIPLLQPKREEEVLDQDFHMEEA
 LDWPGVYLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQQIGLGPIED
 TILVIDPNNAVLQSSGKNLFYLPGLSIDKDGNVWTDVALHQVFKLDPNNKEGPV
 LILGRSMQPGSDQNHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFITQWG
 EESSGSSPLPGQFTVPHSLALVPLLGLQCVADRENGRIQCFTDTKEFVREIKHSSF
 GRNVFAISYIPGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIIDIFKPVRKHFDMPHDI
 VASEDGTVYIGDAHTNTVWKFTLTEKLEHRSVKKAGIEVQEIKEAEAVVETKMENKP
 TSSELQKMQEKGKLIKEPGSGVPVVLITLLVIPVVLLAIAIFIRWKKSRAFGDSEHKL
 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](#)

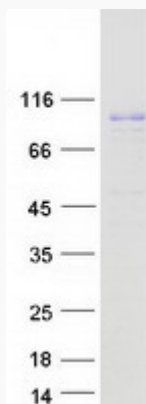
mRNA Refseq [NM_138821](#)

Protein Refseq [NP_620176](#)

MIM [170270](#)

UniProt ID [P19021](#)

SDS-PAGE



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