

Recombinant Human PAM

Cat. No. PAM-30777TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PAM isoform 2 , with N terminal proprietary tag; Predicted MW 121.26kDa.
Species	Human
Source	Wheat Germ
ProteinLength	866 amino acids
Description	This gene encodes a multifunctional protein. It has two enzymatically active domains with catalytic activities - peptidylglycine alpha-hydroxylating monooxygenase (PHM) and peptidyl-alpha-hydroxyglycine alpha-amidating lyase (PAL). These catalytic domains work sequentially to catalyze neuroendocrine peptides to active alpha-amidated products. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene but some of their full length sequences are not yet known.
Molecular Weight	121.260kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

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Storage Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequences of amino acids

MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSN ECLGTTRPVVPIDSSDF
 ALDIRMPGVTPKQSDTYFCMSMR IPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPS
 STGSYWF CDEGTCTDKANILYAWARNAPTRLPGKGVGFRVGGGETGSK YFVLQVH
 YGDISAFRDNNKDCSGVSLHLTRLQPPLIAGMY LMMSVDTVIPAGEKVVNSDISCHY
 KNYPMHVFAYRVHTHH LGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVGHVPDV
 SF GDLLAARCVFTGEGRTEATHIGGTSSDEMONLYIMYYMEA KHAVSFMTCTQNV
 APDMFRTIPPEANIPIPVKSDMVMME HHKETEYKDKIPLLQQPKREEEVLDQDFH
 MEEALDWPGV YLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQ QIGL
 GPIEEDTILVIDPNNAAVLQSSGKNLFYLPGLSID KDGNYWVTDVALHQVFKLDPN
 NKEGPVLILGRSMQPGSDQ NHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSG
 KFIT QWGEESSGSSPLPGQFTVPHSLALVPLLQQLCVADRENGR IQCFKTDTKEFV
 REIKHSSFGRNVFAISYIPGLLFAVNGK PHFGDQEPVQGFVMNFSNGEIIDIFKPVK
 HFDMPHDIVA SEDGTVYIGDAHTNTVWKFTEKLEHRVSKKAGIEVQEI KEAEAVV
 ETKMENKPTSSELQKMQEKQKLIKEPGSGVPVV LITLLVIPVVVLLAIAIFIRWKKSR
 AFGDSEHKLETSSG RVLGRFRGKGGGLNLGNFFASRKGYSRKGFDRLSTEGSD
 QEKEDDGSESEEEYSAPLPALAPSSS

Sequence Similarities In the C-terminal section; belongs to the peptidyl-alpha-hydroxyglycine alpha-amidating lyase family. In the N-terminal section; belongs to the copper type II ascorbate-dependent monooxygenase family. Contains 5 NHL repeats.

GENE INFORMATION

Gene Name PAM peptidylglycine alpha-amidating monooxygenase [Homo sapiens]

Official Symbol PAM

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Synonyms	PAM; peptidylglycine alpha-amidating monooxygenase; peptidyl-glycine alpha-amidating monooxygenase; PAL; peptidyl alpha hydroxyglycine alpha amidating lyase; peptidylglycine alpha hydroxylating monooxygenase; PHM;
Gene ID	5066
mRNA Refseq	NM_000919
Protein Refseq	NP_000910
MIM	170270
Uniprot ID	P19021
Chromosome Location	5q
Function	L-ascorbic acid binding; copper ion binding; lyase activity; metal ion binding; peptidylamidoglycolate lyase activity;

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