

Recombinant Full Length Human PAM Protein

Cat. No. PAM-357HF **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	In Vitro Cell Free System
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.
Form	Liquid
Molecular Mass	121.260kDa inclusive of tags
AA Sequence	MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSN ECLGTTRPVVPIDSSDF ALDIRMPGVTPKQSDTYFCMSMR IPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPS STGSYWF CDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGGETGSK YFVLQVH YGDISAFRDNNKDCSGVSLHLTRLQPQPLIAGMY LMMSVDTVIPAGEKVVNSDISCHY

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KNYPMHVFAYRVHTHH LGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVGHPVDV
 SF GDLLAARCVFTGEGRTEATHIGGTSSDEMCNLYIMYYMEA KHAVSFMTCTQNV
 APDMFRTIPPEANIPIPVKSDMVMME HHKETEYKDKIPLLQPKREEEVLDQDFH
 MEEALDWPGV YLLPGQVSGVALDPKNNLVIFHRGDHVDGNSFDSKFVYQ QIGL
 GPIEEDTILVIDPNNAAVLQSSGKNLFYLPGLSID KDGNYWVTDVALHQVFKLDPN
 NKEGPVLILGRSMQPGSDQ NHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSG
 KFIT QWGEESGSSPLPGQFTVPHSLALVPLLGLQCVADRENGR IQCFKTDTKFV
 REIKHSSFGRNVFAISYIPGLLFAVNGK PHFGDQEPVQGFVMNFSNGEIIDIFKPVRK
 HFDMPHDIVA SEDGTVYIGDAHTNTVWKFTLTEKLEHRSVKKAGIEVQEI KEAEAVV
 ETKMENKPTSSELQKMQEKQKLIKEPGSGVPV LITLLVIPVVLLAIAIFIRWKKSR
 AFGDSEHKLETSSG RVLGRFRGKGGGGLNLGNFFASRKGYSRKGFDRLSTEGSD
 QEKEDDGSESEEEYSAPLPALAPSSS

Purity Proprietary Purification

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

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

GENE INFORMATION

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

Official Symbol PAM

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

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mRNA Refseq	NM_000919
Protein Refseq	NP_000910
MIM	170270
UniProt ID	P19021

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