

Recombinant Full Length Human PAM Protein

Cat. No. PAM-357HF Lot. No. (See product label)

SPECIFICATION

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| 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 | MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTTRPFSN ECLGTTRPVVPIDSSDF ALDIRMPGVTPKQSDTYFCMSMR IPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPS STGSYWF CDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGGETGSK YFVLQVH YGDISAFRDNNKDCSGVSLHLTRLPLQPLIAGMY LMMSVDTVIPAGEKVVNSDISCHY |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KNYPMHVFAYRVHTHH LGKVVSGYRVRNGQWTLIGRQSPQLPQAFYVPVGHVVDV
 SF GDLLAARCVFTGEGRTEATHIGGTSSDEMCLNYIMYYMEA KHAVSFMTCTQNV
 APDMFRTIPPEANIPIPVKSDMVMME HHKETEYKDKIPLLQQPKREEEVLDQDFH
 MEEALDWPGV YLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVYQ QIGL
 GPIEEDTILVIDPNNAAVLQSSGKNLFYLPGLSID KDGNYWVTDVALHQVFKLDPN
 NKEGPVLILGRSMQPGSDQ NHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSG
 KFIT QWGEESGSSPLPGQFTVPHSLALVPLLQGLCVADRENGR IQCFKTDTKEFV
 REIKHSSFGRNVFAISYIPGLLFAVNGK PHFGDQEPVQGFVMNFSNGEIIDIFKPVKR
 HFDMPHDIVA SEDGTVYIGDAHTNTVWKFTLTKLEHRSVKKAGIEVQEI KEAEAVV
 ETKMENKPTSSELQKMQEKKLIKEPGSGVPVV 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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