

Product datasheet for TP302074M

PAM (NM_138821) Human Recombinant Protein

Product data:

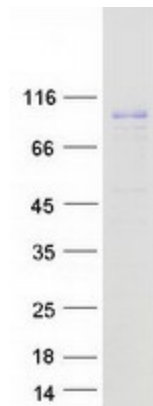
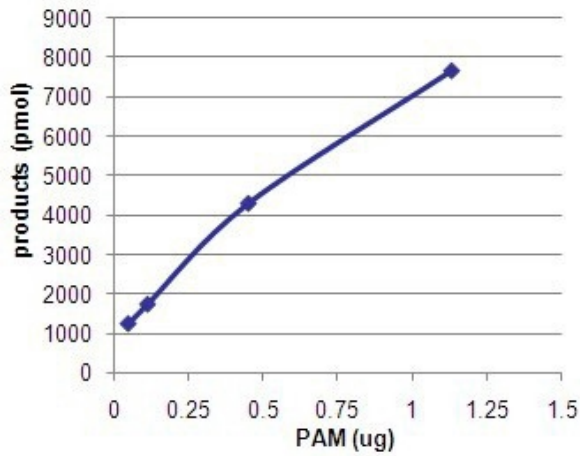
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant 3, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC202074 protein sequence Red =Cloning site Green =Tags(s) |
| | <p>MAGRVPSSLVLLVFPSSCLAFRSPLSVFKRFKETRPFSSNECLGTRPVWIDSSDFALDIRMPGVTPKQ SDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSSGTYWFCDEGTCTDKANILYAWARNA PPTRLPKGVGFRVGGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTRLPQPLIAGMYLMMSVDTVIP AGEKVVNSDISCHYKNYPMHVFAYRVHTHHLGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVGHVPDVVSF GDLLAARCVFTGEGRTEATHIGGTSSDEMKNLYIMYYMEAKHAVSFMTCTQNVAPDMFRTIPPEANIPI VKSDMVMMEHHKETEYKDKIPLLQPKREEEVLDQDFHMEEALDWPVYLLPGQVSGVALDPKNNLVI FHRGDHVWDGNSFDSKFVYQQIGLGP I EEDTILVIDPNNAAVLQSSGKNLFYLPGLSIDKDGNVWVTDV ALHQVFKLDPNNKEGPVLLGRSMQPGSDQNHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFIT QWGEESGSSPLPGQFTVPHSLALVPLLGLQCVADRENGRIQCFTDTKEFVREIKHSSFGNRVFAISYI PGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIIDIFKPVKHFDMPHDIVASEDGTVYIGDAHTNTVWKFT LTEKLEHRSVKKAGIEVQEIKEAEAVVETKMENKPTSELQKMQEKKLIKEPGSGVPVLLITLLVIPV VLLAIAIFIRWKKSRAFGDSEHKLETSSGRVLRFRGKGGGLNLGNFFASRKGYSRKGFDRLSTEGSD QEKEDDGSESEEEYSAPLPALAPSSS</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Tag: | C-Myc/DDK |
| Predicted MW: | 94.2 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |



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| Bioactivity: | The specific activity of PAM was determined by measuring the product D-Tyr-Val-NH ₂ formation from a conversion of D-Tyr-Val-Gly. The reaction was carried out at 37C for 60min in the buffer containing 50 mM MES, pH6.0, 1 μ M CuCl ₂ , 2000 units/ml of Catalase, 5 mM L-ascorbic acid, and 50 μ M of D-Tyr-Val-Gly as the substrate |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_620176 |
| Locus ID: | 5066 |
| UniProt ID: | P19021 |
| RefSeq Size: | 5035 |
| Cytogenetics: | 5q21.1 |
| RefSeq ORF: | 2598 |
| Synonyms: | PAL; PHM |
| Summary: | 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. [provided by RefSeq, Jan 2016] |
| Protein Families: | Druggable Genome, Transmembrane |

Product images:



Coomassie blue staining of purified PAM protein (Cat# [TP302074]). The protein was produced from HEK293T cells transfected with PAM cDNA clone (Cat# [RC202074]) using MegaTran 2.0 (Cat# [TT210002]).