

Product datasheet for TP302074

PAM (NM_138821) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peptidylglycine alpha-amidating monooxygenase (PAM), transcript variant 3, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202074 protein sequence Red =Cloning site Green =Tags(s)

MAGRVPSLLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSNECLGTRPVVPIIDSSDFALDIRMPGVTPKQ
SDTYFCMSMRIPVDEEAFVIDFKPRASMDTVHHMLLFGCNMPSSSTGSYWFCDEGTCTDKANILYAWARN
A
PPTRLPKGVGFRVGGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTRLQPQLIAGMYLMMSVDTVIP
AGEKVVNSDISCHYKNYPMHVFAYRVHHTHLGKWSGYRVRNGQWTLIGRQSPQLPQAFYPVGHVPDVS
F
GDLLAARCVFTGEGRTEATHIGGTSSDEMCLNYIMYYMEAKHAVSFMTCTQNVAPDMFERTIPPEANIPI
VKSDMVMHEHHKETEKDKIPLLQPKREEEVLDQDFHMEEALDWPGVYLLPGQVSGVALDPKNNL
VI
FHRGDHVWDGNSFDSKFVYQQIGLGPiEEDTILVIDPNNAAVLQSSGKNLFYLPGLSIDKDGNYWVTDV
ALHQVFKLDPNNKEGPVILGRSMQPGSDQNHFCQPTDVAVDPGTGAIYVSDGYCNSRIVQFSPSGKFIT
QWGEESSGSSPLPGQFTVPHSLALVPLLGLQCVADRENGRIQCFTDTEFVREIKHSSFGRNVFAISYI
PGLLFAVNGKPHFGDQEPVQGFVMNFSNGEIIDIFKPVKHFDMPHDIVASEDGTVYIGDAHTNTVWKFT
LTEKLEHRVSKKAGIEVQEIKEAEAVVETKMKENKPTSSSELQKMQEKKLIKEPGSGVPVLLITLLVIPV
VLLAIAIFIRWKKSRAFGDSEHKLETSSGRVLGRFRGKGSGLNLGNFFASRKGYSRKGFDRLSTEGSD
QEKEDDGSESEEEYSAPLPALAPSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

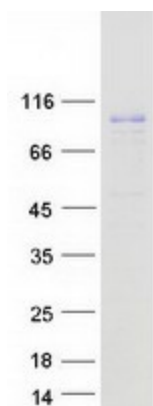
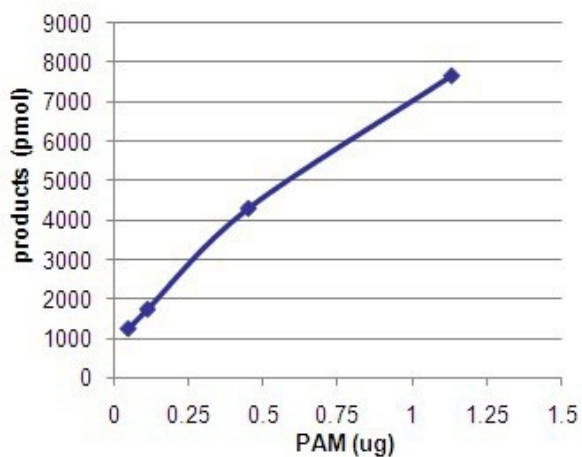
Tag:	C-Myc/DDK
Predicted MW:	94.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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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 μM CuCl ₂ , 2000 units/ml of Catalase, 5 mM L-ascorbic acid, and 50 uM 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]).