

## Product datasheet

# Recombinant Human PAM/Peptidyl-glycine alpha-amidating monooxygenase protein ab116775

[1 Image](#)

### Description

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<b>Product name</b>	Recombinant Human PAM/Peptidyl-glycine alpha-amidating monooxygenase protein
<b>Expression system</b>	Wheat germ
<b>Accession</b>	<b><u>P19021-2</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human

### Sequence

MAGRVPSELLVLLVFPSSCLAFRSPLSVFKRFKETTRPFSN  
ECLGTRPVV  
PIDSSDFALDIRMPGVTPKQSDTYFCMSMRIPVDEEAFVID  
FKPRASMDT  
VHHMLLFGCNMPSSTGSYWFCDEGTCTDKANILYAWARN  
APPTRLPKGVG  
FRVGGETGSKYFVLQVHYGDISAFRDNNKDCSGVSLHLTR  
LPQPLIAGMY  
LMMSVDTVIPAGEKVVNSDISCHYKNYPMHVFAYRVHTHH  
LGKVVSGYRV  
RNGQWTLIGRQSPQLPQAFYPVGHVPDVSFGDLLAARCV  
FTGEGRTEATH  
IGGTSSDEM CNLYIMYMEAKHAVSFMTCTQNVAPDMFRT  
IPPEANIPI  
VKSDMVMMEHHKETEYKDKIPLLQPKREEEVLDQDF  
HMEEALDWPGV  
YLLPGQVSGVALDPKNNLVIFHRGDHVWDGNSFDSKFVY  
QQIGLPIEED  
TILVIDPNNAAVLQSSGKNLFYLPGLSIDKDGNYWVTDVA  
LHQVFKLDP  
NNKEGPVLILGRSMQPGSDQNHFCQPTDVAVDPGTGAIY  
VSDGYCNSRIV  
QFSPSGKFITQWGEESGSSPLPGQFTVPHSLALVPLLG  
QLCVADRENGR  
IQCFKTDTKEFVREIKHSSFGRNVFAISYIPGLLFAVNGKPH  
FGDQEPVQ

GFVMNFSNGEIIDIFKPVRKHFDMPHDMASEDGTVYIGDA  
HTNTVWKFT  
LTEKLEHRVSVKAGIEVQEIKEAEAVVETKMENKPTSSEL  
QKMQEKKLI  
KEPGSGVPVLLITLLVIPPVLLAIAIFIRWKKSRAFGDSEH  
KLETSSG  
RVLGRFRGKGGGLNLGNFFASRKGYSRKGFDRLSTEGS  
DQEKEDDGSES EEEYSAPLPALAPSSS

<b>Predicted molecular weight</b>	121 kDa including tags
<b>Amino acids</b>	1 to 866
<b>Tags</b>	GST tag N-Terminus

## Specifications

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Our **Abpromise guarantee** covers the use of **ab116775** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	ELISA Western blot SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as PAM.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
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## General Info

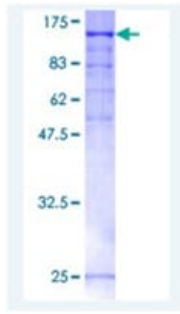
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<b>Function</b>	Bifunctional enzyme that catalyzes 2 sequential steps in C-terminal alpha-amidation of peptides. The monooxygenase part produces an unstable peptidyl(2-hydroxyglycine) intermediate that is dismutated to glyoxylate and the corresponding desglycine peptide amide by the lyase part. C-terminal amidation of peptides such as neuropeptides is essential for full biological activity.
<b>Sequence similarities</b>	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.
<b>Cellular localization</b>	Membrane and Secreted. Secreted from secretory granules.

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## Images

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12.5% SDS-PAGE showing ab116775 at approximately 121.26kDa. Stained with Coomassie Blue.

SDS-PAGE - Recombinant Human PAM/Peptidyl-glycine alpha-amidating monooxygenase protein (ab116775)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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