

Human PAM ELISA Kit | PAM elisa kit

Human PAM PicoKine ELISA Kit

CATALOG #
AAA125178

REACTIVITY
Human

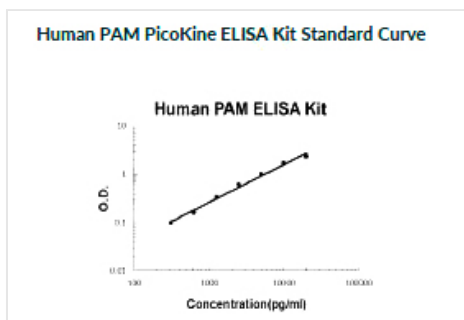
PRODUCT SYNONYMS

PAM; Human PAM PicoKine ELISA Kit; Human PAM; peptidylglycine alpha-amidating monooxygenase; Peptidyl-glycine alpha-amidating monooxygenase; Peptidylglycine alpha-hydroxylating monooxygenase (EC:1.14.17.3); PHM; Peptidyl-alpha-hydroxyglycine alpha-amidating lyase (EC:4.3.2.5); Peptidylamidoglycolate lyase; PAL; PAM elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human PAM
Sequence Length	974
Samples	Cell culture supernates, serum and plasma (heparin, EDTA, citrate)
Detection Range	312pg/ml-20000pg/ml
Sensitivity	<50pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays):Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months. Store at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PAM elisa kit	Principle of the Assay: The Picokine™ Human PAM Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human PAM with a 96-well strip plate that is pre-coated with antibody specific for PAM. The detection antibody is a biotinylated antibody specific for PAM. The capture antibody is a monoclonal antibody from mouse, the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human PAM with immunogen: Expression system for standard: NSO, Immunogen sequence: M1-V817. The kit is analytically validated with ready to use reagents. To measure Human PAM, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human PAM in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human PAM in the sample.!!Background/Introduction: Peptidyl-glycine alpha-amidating monooxygenase is an enzyme that catalyzes the biosynthesis of many signaling peptides and, in humans, is encoded by the PAM gene. It is mapped to 5q21.1. 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 alphanhydroxylating 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21070984
NCBI GeneID	5066
NCBI Accession #	NP_000910.2
NCBI GenBank Nucleotide #	NP_000910.2
UniProt Accession #	P19021
NCBI Official Full Name	peptidyl-glycine alpha-amidating monooxygenase isoform a
NCBI Official Synonym Full Names	peptidylglycine alpha-amidating monooxygenase
NCBI Official Symbol	PAM
NCBI Official Synonym Symbols	PAL; PHM
NCBI Protein Information	peptidyl-glycine alpha-amidating monooxygenase
UniProt Protein Name	Peptidyl-glycine alpha-amidating monooxygenase
UniProt Gene Name	PAM
UniProt Synonym Gene Names	PAM; PHM; PAL

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.