Active Recombinant Human KMT2A Protein, His-tagged

Cat. No. PAM-2542H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human KMT2A Protein(21-288 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	21-288 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 0.05% sarcosyl and 5% trehalose.
Bio-activity	Peptidyl-glycine alpha-amidating monooxygenase (PAM) is an enzyme that is required for the biosynthesis of many signaling peptides. This enzyme mainly 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 neuroendocrine peptides to active alpha-amidated products. Besides, Glucosidase Alpha, Acid (GaA) has been identified as an interactor of PAM, thus a binding ELISA assay was conducted to detect the interaction of recombinant human PAM and recombinant human GaA. Briefly, PAM were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to GaA-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-PAM pAb, then aspirated and washed 3 times. After

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	incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of PAM and GaA.was shown, and this effect was in a dose dependent manner.
Molecular Mass	33.7kDa
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
protein Refseq-Weblink	http://www.ncbi.nlm.nih.gov/protein/NP_000910.2
Unit ID	P19021
Unit ID-Weblink	https://www.uniprot.org/uniprot/P19021

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

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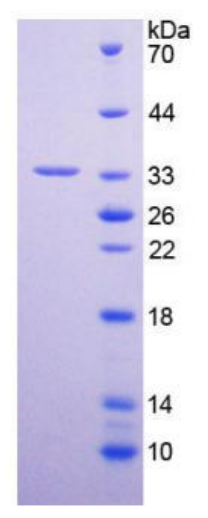
	lyase; peptidylglycine alpha hydroxylating monooxygenase; PHM; peptidylamidoglycolate lyase; peptidylglycine 2-hydroxylase; peptidyl alpha-amidating enzyme; peptidylglycine alpha-hydroxylating monooxygenase; peptidyl-alpha-hydroxyglycine alpha-amidating lyase; pancreatic peptidylglycine alpha-amidating monooxygenase;
Gene ID	5066
mRNA Refseq	NM_000919
protein Refseq	NP_000910
MIM	170270
SDS-PAGE	

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