

Rat Apelin (APLN) ELISA Kit | APLN elisa kit

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CATALOG # AAA182356	REACTIVITY Rat
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PRODUCT SYNONYMS

Apelin (APLN); Rat Apelin (APLN) ELISA Kit; XNPEP2; APEL; APJ endogenous ligand; APLN elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of apelin. No significant cross-reactivity or interference between apelin and analogues was observed.
Sequence Length	77
Assay Type	Quantitative Competitive
Samples	Rat serum, plasma and other biological fluids
Detection Range	49.4-4,000pg/mL
Sensitivity	< 19.2pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level apelin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level apelin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

ADDITIONAL INFORMATION

Related Product Information for APLN elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to apelin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled apelin and unlabeled apelin (Standards or samples) with the pre-coated antibody specific to apelin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of apelin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of apelin in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of apelin in rat serum, plasma and other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	45120090
NCBI GeneID	8862
NCBI Accession #	NP_059109.3

NCBI GenBank Nucleotide #	NM_017413.4
UniProt Accession #	Q9ULZ1 ; Q4VY08 ; Q8WU89
Molecular Weight	8,569 Da
NCBI Official Full Name	apelin preproprotein
NCBI Official Synonym Full Names	apelin
NCBI Official Symbol	APLN
NCBI Official Synonym Symbols	APEL; XNPEP2
NCBI Protein Information	apelin
UniProt Protein Name	Apelin
UniProt Gene Name	APLN
UniProt Synonym Gene Names	APEL

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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/apelin-apln/182356>