

## Recombinant Dog Renin, His-tagged

**Cat. No.** REN-5472D    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant DogRenin is produced from the proenzyme Prorenin by proteolytic cleavage of a 43amino acid N-Terminal prosegment using limited enzymatic digestion byimmobilized Trypsin. Conversion to active Renin is >98%.                                                                                                       |
| <b>Species</b>          | Dog                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Renin (REN), alsoknown as Angiotensinogenase, is a cleaved aspartyl protease that is specificfor only one substrate, Angiotensinogen. REN participates in theRenin-Angiotensin System (RAS) thereby mediating extracellular volume (i. e.that of the blood plasma, lymph and interstitial fluid), and arterialvasoconstriction. |
| <b>Form</b>             | Frozen Liquid in0.05 M Tris-HCl pH 8.0.                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>    | 1.0 mg/mL                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Weight</b> | 41.7 kDa                                                                                                                                                                                                                                                                                                                        |
| <b>Volume</b>           | 0.1 mL                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Store at -70°C.                                                                                                                                                                                                                                                                                                                 |
| <b>OfficialSymbol</b>   | REN                                                                                                                                                                                                                                                                                                                             |

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**Pathways** ACE InhibitorPathway; Renin-angiotensin system

## GENE INFORMATION

**Gene Name** REN renin [ *Canis lupusfamiliaris* ]

**Synonyms** REN; rennin;angiotensinogenase; EC 3.4.23.15; Renin; Angiotensinogenase

**Gene ID** 403838

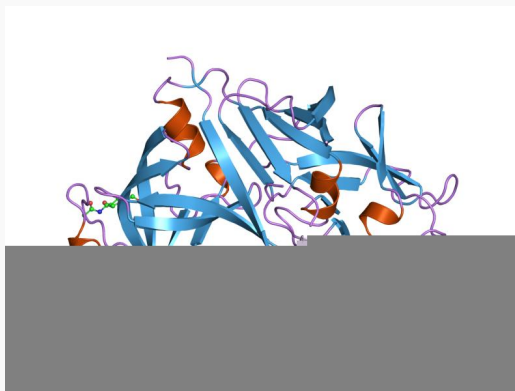
**mRNA Refseq** NM\_001003194

**Protein Refseq** NP\_001003194

**UniProt ID** Q6DYE7

**Chromosome  
Location** 38

**PDB rendering  
basedon 2ren.**



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