

## Product datasheet

# Recombinant Dog Prorenin protein ab92555

### Overview

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<b>Product name</b>	Recombinant Dog Prorenin protein
<b>Protein length</b>	Full length protein

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	HEK 293 cells

### Amino Acid Sequence

<b>Species</b>	Dog
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### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab92555** 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>	SDS-PAGE
<b>Purity</b>	> 95 % SDS-PAGE. Purified by chelated metal affinity chromatography
<b>Form</b>	Liquid

### 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. Preservative: None Constituents: 0.05M Tris HCl, pH 8.0
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### General Info

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<b>Function</b>	Renin is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney.
<b>Involvement in disease</b>	Defects in REN are a cause of renal tubular dysgenesis (RTD) [MIM:267430]. RTD is an autosomal recessive severe disorder of renal tubular development characterized by persistent

fetal anuria and perinatal death, probably due to pulmonary hypoplasia from early-onset oligohydramnios (the Potter phenotype).

Defects in REN are the cause of familial juvenile hyperuricemic nephropathy type 2 (HNFJ2) [MIM:613092]. It is a renal disease characterized by juvenile onset of hyperuricemia, slowly progressive renal failure and anemia.

**Sequence similarities**

Belongs to the peptidase A1 family.

**Cellular localization**

Secreted. Membrane. Associated to membranes via binding to ATP6AP2.

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