# Human Renin (His Tag) recombinant protein

Catalog Number: 501755



### **General Information**

### Gene Name Synonym

Angiotensinogenase

#### **Protein Construction**

A DNA sequence encoding the human Renin (NP\_000528.1) precursor (Met 1-Arg 406) was expressed with a polyhistidine tag at the C-terminus.

### **Organism**

Human

### **Expression Host**

**Human Cells** 

## **QC Testing**

### **Activity**

Measured by its binding ability in a functional ELISA.

Immobilized human RENIN-His (Cat: 501755) at  $10 \mu g/ml$  (100  $\mu l/well$ ) can bind biotinylated human AGT-His (Cat: 501652) with a linear range of 0.156-5.0  $\mu g/ml$ .

### **Purity**

> 95 % as determined by SDS-PAGE

### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

### **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

#### **Predicted N terminal**

Leu 24

#### **Molecular Mass**

The secreted recombinant human Renin is a monomeric protein after cleavage of the signal peptide. The pro form consists of 394 amino acids and predictes a molecular mass of 43.7 kDa. In SDS-PAGE under reducing conditions, it migrates with the apparent molecular mass of 50 kDa due to glycosylation.

#### **Formulation**

Lyophilized from sterile 25mM MES, 150mM NaCl, pH6.5

- 1. 5 % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

## **Usage Guide**

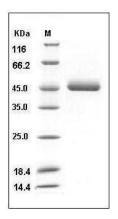
### **Storage**

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

#### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**



Human Renin Protein (His Tag) SDS-PAGE