abcam

Product datasheet

Recombinant human Renin protein ab135012

2 Images

Description

Product name	Recombinant human Renin protein
Biological activity	Activity: 255 pmol/min/µg. Assay conditions: activity was measured with Renin titrated from 8 ng/rxn -0.125 ng/rxn.
Purity	> 80 % SDS-PAGE. Affinity purified.
Expression system	HEK 293 cells
Accession	P00797
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	LTLGNTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFDTGSS NVWVPSSK CSRLYTACVYHKLFDASDSSSYKHNGTELTLRYSTGTVSG FLSQDIITVG GITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRV TPIFDNIISQ GVLKEDVFSFYYNRDSENSQSLGGQIVLGGSDPQHYEGN FHYINLIKTGV WQIQMKGVSVGSSTLLCEDGCLALVDTGASYISGSTSSIE KLMEALGAKK RLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADYVFQESY SSKKLCTLAI HAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR
Predicted molecular weight	39 kDa including tags
Amino acids	67 to 406
Tags	His tag C-Terminus
Additional sequence information	Pro-form aa22-406: 44KDa including tag. Mature form aa67-406: 39 Kda including tag

Specifications

Our **Abpromise guarantee** covers the use of **ab135012** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid
Additional notes	255 pmol/min/µg

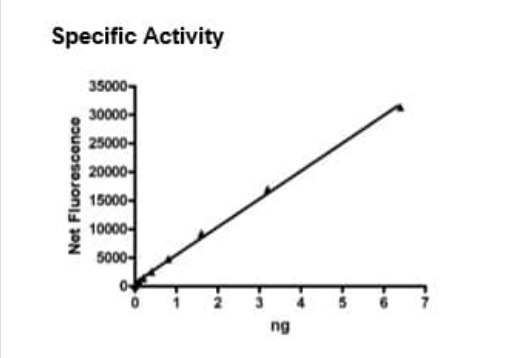
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 1.36% Imidazole Constituents: 0.02% Potassium chloride, 0.63% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.64% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

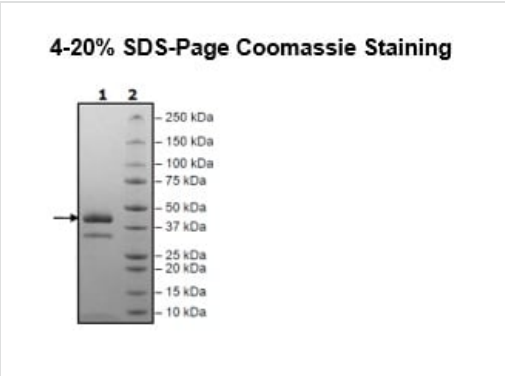
Function	Renin is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney.
Involvement in disease	Defects in REN 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.

Images



Functional Studies - Recombinant human Renin protein (ab135012)

Specific activity of ab135012 was determined to be 255 pmol/min/µg



SDS-PAGE - Recombinant human Renin protein (ab135012)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors