

Recombinant human Renin protein

Catalog Number: ATGP3412

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

24-406aa

UniProt No.

P00797

NCBI Accession No.

NP_000528

Alternative Names

Renin, REN, HNFJ2, Angiotensin forming enzyme, Angiotensin forming enzyme precursor, Angiotensinogenase, Angiotensinogenase precursor, FLJ10761, HNFJ2, REN, Ren1, RENI_HUMAN, Renin, Renin precursor renal

PRODUCT SPECIFICATION

Molecular Weight

43.3 kDa (391aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

REN, also known as renin, is a member of the peptidase A1 family. It is synthesized by the juxtaglomerular cells of the kidney in response to decreased blood pressure and sodium concentration. It is a highly specific endopeptidase, whose only known function is to generate angiotensin I from angiotensinogen in the plasma,

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initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney. Recombinant human REN, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques

Amino acid Sequence

LPTDTTTFKR IFLKRMPISIR ESLKERGVDM ARLGPEWSQP MKRLTLGNTT SSVILTNYMD TQYYGEIGIG TPPQTFKVVF
DTGSSNVWVVP SSKCSRLTYA CVYHKLFDAS DSSSYKHNGT ELTLRYSTGT VSGFLSQDII TVGGITVTQM FGEVTEMPAL
PFMLAEFDGV VGMGFIEQAI GRVTPIFDNI ISQGVLKEDV FSFYNRDSE NSQSLGGQIV LGGSDPQHYE GNFHYINLIK
TGVWQIQMKG VSVGSSTLLC EDGCLALVDT GASYISGSTS SIEKLMEALG AKKRLFDYVV KCNEGPTLPD ISFHLGGKEY
TLTSADYVFQ ESYSSKKLCT LAIHAMDIPP PTGPTWALGA TFIRKFYTEF DRRNNRIGFA LAR<LEHHHHH H>

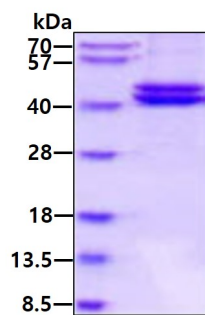
General References

Nguyen G.,et al. (2014) Hypertension. 63:297-302.

Nabi AH.,et al. (2012) Biochem Biophys Res Commun. 428:506-511.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.