

Recombinant human Renin protein

Catalog Number: ATGP4050

PRODUCT INFORMATION

Expression system

HEK293

Domain

24-406aa

UniProt No.

P00797

NCBI Accession No.

NP_000528.1

Alternative Names

REN, renin, ADTKD4, HNFJ2, RTD, Angiotensinogenase

PRODUCT SPECIFICATION

Molecular Weight

43.1 kDa (389aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 95% 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

Renin, also known as REN, 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, initiating a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by

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the kidney. Recombinant human Renin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

LPTDTTTFKR IFLKRMP SIR ESLKERG VDM ARLGPEWSQP MKRLTLGNTT SSVILTNYMD TQYYGEIGIG TPPQTFKVVF DTGSSNVVWP SSKCSRLYTA CVYHKLFDAS DSSSYKHNGT ELTLRYSTGT VSGFLSQDII TVGGITVTQM FGEVTEMPAL PFMLAEFDGV VGMGFIEQAI GRVTPIFDNI ISQGV LKEDV FSFYNRDSE NSQSLGGQIV LGGSDPQHYE GNFHYINLIK TGVWQIQMKG VSVGSTLLC EDGCLALVDT GASYS GSTS SIEKLMEALG AKKRLFDYVV KCNEGPTLPD ISFHLGGKEY TLTSADYVFQ ESYSSKLLCT LAIHAMDIPP PTGPTWALGA TFIRKFYTEF DRRNNRIGFA LAR<HHHHHH>

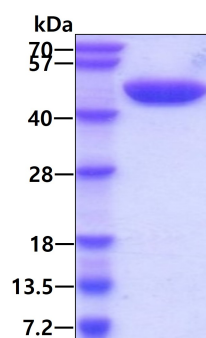
General References

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.