

## 32-4636: Recombinant Human Renin, HEK

**Alternative Name :** Renin,Angiotensinogenase,EC 3.4.23.15,HNFJ2,Angiotensin-Forming Enzyme,RENIN Precursor Renal,EC 3.4.23.

### Description

Source : HEK 293. Renin Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Leu24-Arg406) containing a total of 393 amino acids, having a calculated molecular mass of 43.7kDa and fused to a 10 aa His tag at C-Terminus. Renin is a highly specific endopeptidase which generates angiotensin I from angiotensinogen in the plasma. angiotensin I is an important regulator of blood pressure and electrolyte balance. Renin initiates a cascade of reactions that produce an elevation of blood pressure and increased sodium retention by the kidney.

### Product Info

|                            |  |
|----------------------------|--|
| <b>Amount :</b>            | 10 µg  |
| <b>Purification :</b>      | Greater than 95.0% as determined by SDS-PAGE.  |
| <b>Content :</b>           | REN was filtered (0.4µm) and lyophilized from 0.5mg/ml solution in phosphate buffered saline and 5% (w/v) trehalose.   |
| <b>Storage condition :</b> | Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.   |
| <b>Amino Acid :</b>        | LPTDTTTFKR IFLKRMPISIR ESLKERGVDM ARLGPEWSQP MKRLTLGNNT SSVILTNYMD<br>TQYYGEIGIG TPPQTFKVVV DTGSSNVWVP SSKCSRLTYA CVYHKLFDAS DSSSYKHNGT<br>ELTLRYSTGT VSGFLSQDII TVGGITVTQM FGEVTEMPAL PFMLAEFDGV VGMGFIEQAI<br>GRVTPIFDNI ISQGVLKEDV FSFYNRDSE NSQSLGGQIV LGGSDPQHVE GNFHYINLIK<br>TGWVQIQMKG VSVGSTLLC EDGCLALVDT GASYSGSTS SIEKLMEALG AKKRLFDYVV<br>KCNEGPTLPD ISFHLGGKEY TLTSADYVFQ ESYSSKKLCT LAIHAMDIPP PTGPTWALGA<br>TFIRKFYTEF DRRNNRIGFA LAR HHHHHHH HHH. |

### Application Note

It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. REN is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

