

## Recombinant Human REN, His-tagged

**Cat. No.** REN-31180TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Prorenin produced in HEK cell culture with a C-terminal 8x His tag, MWt 43.7kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Renin catalyzes the first step in the activation pathway of angiotensinogen--a cascade that can result in aldosterone release, vasoconstriction, and increase in blood pressure. Renin, an aspartyl protease, cleaves angiotensinogen to form angiotensin I, which is converted to angiotensin II by angiotensin I converting enzyme, an important regulator of blood pressure and electrolyte balance. Transcript variants that encode different protein isoforms and that arise from alternative splicing and the use of alternative promoters have been described, but their full-length nature has not been determined. Mutations in this gene have been shown to cause familial hyperproreninemia. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 50mM Tris, pH 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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| Full Length                | Full L.                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENE INFORMATION</b>    |                                                                                                                                                           |
| <b>Gene Name</b>           | REN renin [ Homo sapiens ]                                                                                                                                |
| <b>Official Symbol</b>     | REN                                                                                                                                                       |
| <b>Synonyms</b>            | REN; renin;                                                                                                                                               |
| <b>Gene ID</b>             | 5972                                                                                                                                                      |
| <b>mRNA Refseq</b>         | NM_000537                                                                                                                                                 |
| <b>Protein Refseq</b>      | NP_000528                                                                                                                                                 |
| <b>MIM</b>                 | 179820                                                                                                                                                    |
| <b>Uniprot ID</b>          | P00797                                                                                                                                                    |
| <b>Chromosome Location</b> | 1q32                                                                                                                                                      |
| <b>Pathway</b>             | ACE Inhibitor Pathway, organism-specific biosystem; Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system, conserved biosystem; |
| <b>Function</b>            | aspartic-type endopeptidase activity; insulin-like growth factor receptor binding; peptidase activity; receptor binding;                                  |

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