

32-4635: Recombinant Human Renin

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

Description

Source : Escherichia Coli. REN Human Recombinant produced in E. coli is a single polypeptide chain containing 365 amino acids (67-406) and having a molecular mass of 39.9kDa. REN is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 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

Amount : 25 µg
Purification : Greater than 80% as determined by SDS-PAGE.
Content : The REN solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid : MGSSHHHHHH SGLVPRGSH MGSMLTLGN TTSSVILTNY MDTQYYGEIG IGTPPQTFKV
VFDTGSSNVW VPSSKCSRLY TACVYHKLFD ASDSSSYKHN GTELTLRYST GTVSGFLSQD
IITVGGITVT QMFGEVTEMP ALPFMLAEFD GVVGMGFIEQ AIGRVTPIFD NIISQGVLE
DVFSFYNRD SENSQSLGGQ IVLGGSDPQH YEGNFHYINL IKTGVWQIQM KGVSVGSSTL
LCEDGCLALV DTGASYISGS TSSIEKLMEA LGAKKRLFDY VVKCNEGPTL PDISFHLGGK
EYTLTSADYV FQESYSSKKL CTLAIHAMD I PPPTGPTWAL GATFIRKFYT EFDRRNNRIG FALAR.

