
Product Data Sheet

Product Name: REN Human
 Cat. No.: GP24367
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Renin; Angiotensinogenase; EC 3.4.23.15; HNFJ2; Angiotensin-Forming Enzyme; Renin Precursor Renal; EC 3.4.23.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLTLGN TTSSVILTNY MDTQYYGEIG IGTPPQTFKV VFDTGSSNVW VPSSKCSRLY TACVYHKLFD ASDSSSYKHN GTELTLRYST GTVSGFLSQD IITVGGITVT QMFGEVTEMP ALPFMLAEFD GVVGMGFIEQ AIGRVTPIFD NIISQGVLKE DVFSFYNRD SENSQSLGGQ IVLGGSDPQH YEGNFHYINL IKTGVWQIQM KGVSVGSSTL LCEDGCLALV DTGASYISGS TSSIEKLMEA LGAKKRLFDY VVKCNEGPTL PDISFHLGGK EYTLTSADYV FQESYSSKKL CTLAIHAMDI PPPTGPTWAL GATFIRKFYT EFDRRNNRIG FALAR.		
Formulation	The REN solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M urea and 10% glycerol.		

Introduction

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.

Stability

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.

Background

REN Human Recombinant produced in E. coli is a single polypeptide chain containing

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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.

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