

Product Data Sheet

Product Name: REN Human, HEK

Cat. No.: GP24369

Batch No.: 1

Product Data

Purity	>98%	Source	HEK 293.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Renin; Angiotensinogenase; EC 3.4.23.15; HNFJ2; Angiotensin-Forming Enzyme; Renin Precursor Renal; EC 3.4.23.

Amino Acid Sequence
 LPTDTTTFKR IFLKRMP SIR ESLKERVDM ARLGPEWSQP MKRLTLGNTT
 SSVILTNYMD TQYYGEIGIG TPPQTFKVV DTGSSNVWVP SSKCSRLYTA
 CVYHKLFDAS DSSSYKHNGT ELTLRYSTGT VSGFLSQDII TVGGITVTQM
 FGEVTEMPAL PFMLAEFDGV VGMGFIEQAI GRVTPIFDNI ISQGV LKEDV
 FSFYNRDSE NSQSLGGQIV LGGSDPQHYE GNFHYNLIK TGVWQIQMKG
 VSVGSSTLLC EDGCLALVDT GASYISGSTS SIEKLMEALG AKKRLFDYVV
 KCNEGPTLPD ISFHLGGKEY TLTSADYVFQ ESYSSKKLCT LAIHAMDIPP
 PTGPTWALGA TFIRKFYTEF DRRNNRIGFA LAR HHHHHHH HHH.

Solubility It is recommended to add 200 μ l 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.

Formulation REN was filtered (0.4 μ m) and lyophilized from 0.5mg/ml solution in phosphate buffered saline and 5% (w/v) trehalose.

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 lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 .

Background

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.

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