
Product Data Sheet

Product Name: REN Mouse

Cat. No.: GP24368

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Renin-1; Angiotensinogenase; Kidney renin; Ren1; Ren; Ren-A; Ren1c; Ren1d; Rn-1; Rnr.		
Amino Acid Sequence	LPTRTATFER IPLKKMP SVR EILEERGVDM TRLSAEWGVF TKRPSLTNLTSPVVL TNYL N TQYYGEIGIG TPPQTFKVIF DTGSANLWVP STKCSRLYLA CGIHSLYESS DSSSYMENGSDFTIHYGSGR VKGFLSQDSV TVGGITVTQT FGEVTEPLI PFMLAKFDGV LGMGFPAQAV GGVTPVFDHILSQGV LKEEV FSVYYNRGSH LLGGEVVLGG SDPQHYQGNF HYVSISKTDS WQITMKGVS V GSSTLLCEECAVVVDTGSS FISAPTSSLK LIMQALGAKE KRIEYV VNC SQVPTLPDIS FDLGGRAYTL SSTDYVLQYPNRRDKLCTLA LHAMDIPPT GPVWVLGATF IRKFYTEFDR HNNRIGFALA RHHHHHH.		
Formulation	REN protein solution (0.25mg/ml) contains PhosphateBuffered Saline (pH 7.4) 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

Caution: Product has not been fully validated for medical applications. For research use only.

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REN produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 387 amino acids (22-402 a.a.) and having a molecular mass of 42.5kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions). REN is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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