Creative Enzymes®

Renin from Mouse, recombinant

Cat. No. NATE-1671

Lot. No. (See product label)

Introduction

Description	Renin, also known as an angiotensinogenase, is an enzyme that participates in the body's renin-angiotensin aldosterone system (RAAS)—also known as the renin-angiotensin-aldosterone axis—that mediates extracellular volume (i.e., that of the blood plasma, lymph and interstitial fluid), and arterial vasoconstriction. Thus, it regulates the body's mean arterial blood pressure. Renin is often improperly referred to as a hormone even though it has no peripheral receptors and rather has an enzymatic activity with which it hydrolyses angiotensinogen to angiotensin I.
Synonyms	CYMP; CYM; RENNIN; Chymosin

Product Information

Species	Mouse
Source	HEK 293 cells
Form	Lyophilized from 0.22 μm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.
EC Number	EC 3.4.23.15
CAS No.	9015-94-5
Molecular Weight	The protein is fused with 6×his tag at the C-terminus and has a calculated MW of 43.2 kDa expressed. The predicted N-terminus is Leu24. Protein migrates as 45-55 kDa in reduced SDS-PAGE due to glycosylation.
Purity	> 90% by SDS-PAGE
Activity	>25 pmol/min/μg
Endotoxin Level	< 0.1 ng/μg of protein (<1EU/μg).

Usage and Packaging

Reconstitution	Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 μg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Storage and Shipping Information

Storage	Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.