

## 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

<b>Species</b>	Mouse
<b>Source</b>	HEK 293 cells
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.
<b>EC Number</b>	EC 3.4.23.15
<b>CAS No.</b>	9015-94-5
<b>Molecular Weight</b>	The protein is fused with 6xhis 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.
<b>Purity</b>	> 90% by SDS-PAGE
<b>Activity</b>	>25 pmol/min/µg
<b>Endotoxin Level</b>	< 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.