

Renin from Human, Recombinant

Cat. No. NATE-1951

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 REN; HNFJ2; Renin; angiotensinogenase; Angiotensin forming enzyme

Product Information

Species Human

Source HEK cells, Mature Renin (aa 67-406) is fused at the N-terminus to a FLAG-tag.

Active form, does not contain prorenin peptide (aa 1-66).

Form Lyophilized. In 25mM MES buffer containing 150mM NaCl.

EC Number EC 3.4.23.15

CAS No. 9015-94-5

Molecular Weight ~52kDa (predicted is 38.3 kDa)

Purity >90%

Activity >30U/mg

Concentration 0.1 mg/ml when reconstituted as suggested.

Endotoxin Level <0.1EU/μg protein (LAL test)

Unit Definition 1 unit is defined as the amount of enzyme that cleaves 1 pmole of the fluorogenic

peptide substrate, Arg-Glu(EDANS)-lle-His-Pro-Phe-His-Pro-Phe-His-Leu-Val-Ile-His-

Thr-Lys(dabcyl)-Arg.

Usage and Packaging

Preparation Instructions Reconstitute in 100µl deionized H2O for a final concentration of 0.1mg/ml.

Storage and Shipping Information

Storage at -20°C

Stability Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C.

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