Creative Enzymes®

Native Porcine Angiotensin Converting Enzyme

Cat. No. NATE-0014

Lot. No. (See product label)

Introduction

Description	Angiotensin-converting enzyme (EC 3.4.15.1), or "ACE" indirectly increases blood pressure by causing blood vessels to constrict. It does that by converting angiotensin I to angiotensin II, which constricts the vessels. For this reason, drugs known as ACE inhibitors are used to lower blood pressure. ACE, angiotensin I and angiotensin II are part of the renin-angiotensin system (RAS), which controls blood pressure by regulating the volume of fluids in the body. ACE is secreted in the lungs and kidneys by cells in the endothelium (inner layer) of blood vessels.
Synonyms	ACE; Angiotensin Converting Enzyme; EC 3.4.15.1; dipeptidyl carboxypeptidase I; peptidase P; dipeptide hydrolase, peptidyl dipeptidase; angiotensin converting enzyme; kininase II; angiotensin I-converting enzyme; carboxycathepsin; dipeptidyl carboxypeptidase; "hypertensin converting enzyme" peptidyl dipeptidase I; peptidyl-dipeptide hydrolase; peptidyldipeptide hydrolase; endothelial cell peptidyl dipeptidase; peptidyl dipeptidase-4; PDH; peptidyl dipeptide hydrolase; DCP

Product Information

Species	Porcine
Source	Porcine kidney
Form	Lyophilized powder containing Tris buffer salts.
EC Number	EC 3.4.15.1
CAS No.	9015-82-1
Activity	> 10 units/mg protein (Bradford)
Pathway	Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system, conserved biosystem
Unit Definition	One unit will produce 1.0 µmole of hippuric acid from Hippuryl-His-Leu per min in 50 mM HEPES and 300 mM NaCl at pH 8.3 at 37°C.

Storage and Shipping Information

Storage	−20°C