Creative Enzymes®

Native Human Kallikrein

Cat. No. NATE-0361

Lot. No. (See product label)

Introduction

Description	Plasma kallikrein is an enzyme. This enzyme catalyses the following chemical reaction:Selective cleavage of some Arg-and Lys-bonds, including Lys-Arg and Arg-Ser in (human) kininogen to release bradykinin. This enzyme is formed from plasma prokallikrein (Fletcher factor) by factor XIIa.
Synonyms	serum kallikrein; kininogenin; kallikrein I; kallikrein II; kininogenase; kallikrein; callicrein; glumorin; padreatin; padutin; kallidinogenase; bradykininogenase; panceatic kallikrein; onokrein P; dilminal D; depot-Padutin; urokallikrein; urinary kallikrein; 9001-01-8; EC 3.4.21.34; plasma kallikrein

Product Information

Species	Human
Source	Human plasma
Form	Type I, buffered aqueous solution, Solution in 20 mM Tris-HCl, pH 7.8 with 100 mM NaCl; Type II, lyophilized powder.
EC Number	EC 3.4.21.34
CAS No.	9001-01-8
Activity	Type I, > 5 units/mg protein; Type II, 1-5 units/mg protein.
Pathway	Blood Clotting Cascade, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem
Function	peptidase activity; serine-type endopeptidase activity
Unit Definition	One unit will hydrolyze 1.0 μmole of Nα-benzoyl-L-arginine ethyl ester (BAEE) to Nα-benzoyl-L-arginine and ethanol per min at pH 8.7 at 25°C.

Storage and Shipping Information

Storage	−20°C