

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; pancreatic kallikrein; onokrein P; diilminal 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 μ mole of N α -benzoyl-L-arginine ethyl ester (BAEE) to N α -benzoyl-L-arginine and ethanol per min at pH 8.7 at 25°C.

Storage and Shipping Information

Storage -20°C