

Native Porcine Prolidase

Cat. No. NATE-0627

Lot. No. (See product label)

Introduction

Description Prolidase is an enzyme that catalyzes the hydrolysis of the imide bond between an

 α -carboxyl group and proline or hydroxyproline. The protein forms a homodimer that hydrolyzes dipeptides or tripeptides with C-terminal proline or hydroxyproline

residues.

Applications Prolidase is has an important role recycling of proline and collagen production. It is

used to study mutations in the PEPD gene that cause prolidase deficiency. It is used to hydrolyze proteins with C-terminal proline or hydroxyproline residues. Prolidase from porcine kidney, has been used to hydrolyze peptide bonds from the amino

terminus when studying enzymatic methylation of membrane proteins.

Synonyms Xaa-Pro dipeptidase; prolidase; imidodipeptidase; proline dipeptidase; peptidase D;

gamma-peptidase; X-Pro dipeptidase; EC 3.4.13.9; 9025-32-5

Product Information

Species Porcine

Source Porcine kidney

Form Supplied as a lyophilized powder containing Tris buffer salt and MnCl2.

EC Number EC 3.4.13.9

CAS No. 9025-32-5

Activity > 100 units/mg protein

Composition Protein, 20-60% Lowry

Unit Definition One unit will hydrolyze 1.0 µmole of Gly-Pro per min at pH 8.0 at 40°C.

Storage and Shipping Information

Storage –20°C

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