

Arginine Specific Protease from Porphyromonas gingivalis

Cat. No. NATE-1602

Lot. No. (See product label)

Introduction

Description Arginine Specific Protease specifically digests peptides and proteins C-terminal to

arginine residues. The protease is specific for Arg-X motifs and does not have activity at lysines as commonly observed using Arg-C. The enzymatic activity of Arginine Specific Protease includes digestion of Arg-Pro linkages, which is difficult to digest with other enzymes. The enzyme is active at pH ranging from pH 5.0-9.0

and in presence of denaturing agents such as 6M urea and 0.1% SDS.

ApplicationsPeptide mapping Protein sequence analysis Protein fingerprinting Post-translational

modification analysis

Synonyms Arginine Specific Protease; GingisREX

Product Information

Source Porphyromonas gingivalis

Appearance White to light yellow powder

Form Lyophilized powder in 20 mM Bis-Tris, 150 mM NaCl, 5 mM CaCl2, Ph 6.8 without

preservatives

Purity > 95% homogeneity as determined by SDS-PAGE and HPLC.

pH Stability 5.0-9.0

Optimum pH 6.5-8.0

Buffer To maintain the enzymatically active cysteine in a reduced form, TCEP is added to

preserve the reducing environment. Arginine Specific Protease is active in a broad pH range, 5.0-9.0, with optimal activity between pH 6.5-8.0. Digestion can be performed in the presence of chaotropic agents or detergents such as urea, SDS, tween, SDC. Buffers tested and compatible with Arginine Specific Protease activity

1/1

are Tris, Bis-Tris and ammonium bicarbonate.

Storage and Shipping Information

Storage The product is shipped on ice and should be stored at -20°C upon arrival.

Stability 1 year when stored at -20°C. After reconstitution by addition of water it is stable for

at least 1 month at 4-8°C.

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