

## Native Streptomyces sp. Alkalophilic proteinase

Cat. No. DIA-183

Lot. No. (See product label)

### Introduction

**Applications** This enzyme is more active at a higher pH range than the known alkaline protease, showing the proteolytic activity even in 0.2N NaOH solution. This enzyme is useful for proteolysis of insoluble protein and for structure investigation of protein.

**Synonyms** Alkalophilic proteinase; EC 3.4.21.-

### Product Information

**Source** Streptomyces sp.

**Appearance** White amorphous powder, lyophilized

**Form** Freeze dried powder

**EC Number** EC 3.4.21.-

**Molecular Weight** approx. 50 kDa

**Activity** Grade I 20U/mg-solid or more

**Isoelectric point** 8.7

**pH Stability** pH 5.0-11.5 (25°C, 24hr)

**Optimum pH** > 12

**Thermal stability** below 50°C (pH 8.3, 15min)

**Optimum temperature** 60°C

**Inhibitors** Diisopropyl fluorophosphate, EDTA

**Stabilizers** Ca<sup>++</sup>

### Storage and Shipping Information

**Stability** Stable at -20°C for at least one year