

## Native Phaseolus vulgaris Alpha-Amylase Inhibitor

Cat. No. NATE-0893

Lot. No. (See product label)

## Introduction

**Description** A proteinaceous inhibitor of the digestive enzyme alpha-amylase (1,4-a-D-Glucan

glucanohydrolase; EC 3.2.1.1) has been isolated and purified from kidney beans Phaseolus vulgaris. It is a glycoprotein and it specifically inhibits corresponding plant, bacterial and fungal enzymes. Maximum inhibitory activity, against alphaamylase, occurs at 37° C and pH 5.5. The inhibitor has a molecular weight of 45,000-50,000. Similar alpha-amylase inhibitors also occur in wheat, rye and some

other beans.

Synonyms  $\alpha ext{-Amylase Inhibitor}$ 

**Product Information** 

**Species** Phaseolus vulgaris

**Source** Phaseolus vulgaris

Molecular Weight 45-50 kDa

Unit Definition One unit amount of inhibitor which, after preincubation for 20 minutes at 25° C, pH

6.9 will reduce the activity of two units of human salivary alpha-amylase by 50% (one unit of alpha-amylase will liberate, from soluble starch, one micromole of

1/1

maltose per minute at 25° C, pH 6.9).

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