

## κ-Carrageenase from *Zobellia galactanivorans*, Recombinant

Cat. No. NATE-1292

Lot. No. (See product label)

### Introduction

**Description** Kappa-carrageenase (EC 3.2.1.83, kappa-carrageenan 4-beta-D-glycanohydrolase) is an enzyme with systematic name kappa-carrageenan 4-beta-D-glycanohydrolase (configuration-retaining). This enzyme catalyses the following chemical reaction: Endohydrolysis of (1->4)-beta-D-linkages between D-galactose 4-sulfate and 3,6-anhydro-D-galactose in kappa-carrageenans. The main products of hydrolysis are neocarrabiose-sulfate and neocarratetraose-sulfate.

**Synonyms** K-Carrageenase; Kappa-carrageenase; EC 3.2.1.83; kappa-carrageenan 4-beta-D-glycanohydrolase

### Product Information

**Species** *Zobellia galactanivorans*

**Source** *E. coli*

**Form** 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl<sub>2</sub>, 0.02% sodium azide and 25% (v/v) glycerol

**EC Number** EC 3.2.1.83

**CAS No.** 37288-59-8

**Molecular Weight** 34.2 kDa

**Purity** >90% by SDS-PAGE

**Concentration** 0.25 mg/mL

**Optimum pH** 7

**Optimum temperature** 20-30 °C

**Specificity** K-carrageenan

### Storage and Shipping Information

**Storage** This enzyme is shipped at room temperature but should be stored at -20 °C.