

## **β-porphyranase**

Cat. No. EXWM-3861

Lot. No. (See product label)

## Introduction

**Description** The backbone of porphyran consists largely ( $\sim$ 70%) of (1 $\rightarrow$ 3)-linked β-D-

galactopyranose followed by (1 $\rightarrow$ 4)-linked  $\alpha$ -L-galactopyranose-6-sulfate [the other 30% are mostly agarobiose repeating units of (1 $\rightarrow$ 3)-linked  $\beta$ -D-galactopyranose followed by (1 $\rightarrow$ 4)-linked 3,6-anhydro- $\alpha$ -L-galactopyranose]. This enzyme cleaves the (1 $\rightarrow$ 4) linkages between  $\beta$ -D-galactopyranose and  $\alpha$ -L-galactopyranose-6-sulfate, forming mostly the disaccharide  $\alpha$ -L-galactopyranose-6-sulfate-(1 $\rightarrow$ 3)- $\beta$ -D-galactose, although some longer oligosaccharides of even number of residues are also observed. Since the enzyme is inactive on the non-sulfated agarose portion of the porphyran backbone, some agarose fragments are also included in the products. Methylation of the D-galactose prevents its binding at position -1.

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**Synonyms** porphyranase; PorA; PorB; endo-β-porphyranase

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 3.2.1.178

**Reaction** Hydrolysis of β-D-galactopyranose- $(1\rightarrow 4)$ -α-L-galactopyranose-6-sulfate linkages in

porphyran

**Notes** This item requires custom production and lead time is between 5-9 weeks. We can

custom produce according to your specifications.

## Storage and Shipping Information

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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