

chitin disaccharide deacetylase

Cat. No. EXWM-4384

Lot. No. (See product label)

Introduction

Description

Chitin oligosaccharide deacetylase is a key enzyme in the chitin catabolic cascade of chitinolytic Vibrio strains. Besides being a nutrient, the heterodisaccharide product 4-O-(N-acetyl-β-D-glucosaminy)-D-glucosamine is a unique inducer of chitinase production in Vibrio parahaemolyticus. In contrast to EC 3.5.1.41 (chitin deacetylase) this enzyme is specific for the chitin disaccharide. It also deacetylates the chitin trisaccharide with lower efficiency. No activity with higher polymers of GlcNAc.

Synonyms

chitobiose amidohydrolase; COD; chitin oligosaccharide deacetylase; chitin oligosaccharide amidohydrolase; 2-(acetylamino)-4-O-[2-(acetylamino)-2-deoxy-β-D-glucopyranosyl]-2-deoxy-D-glucopyranose acetylhydrolase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.5.1.105

Reaction

N,N' -diacetylchitobiose + H₂O = N-acetyl-β-D-glucosaminy-(1→4)-D-glucosamine + acetate

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

Storage

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