

poly(3-hydroxybutyrate) depolymerase

Cat. No. EXWM-3503

Lot. No. (See product label)

Introduction

Description

Reaction also occurs with esters of other short-chain-length (C1-C5) hydroxyalkanoic acids (HA). There are two types of polymers: native (intracellular) granules are amorphous and have an intact surface layer; denatured (extracellular) granules either have no surface layer or a damaged surface layer and are partially crystalline.

Synonyms

PHB depolymerase; poly(3HB) depolymerase; poly[(R)-hydroxyalkanoic acid] depolymerase; poly(HA) depolymerase; poly(HASCL) depolymerase; poly[(R)-3-hydroxybutyrate] hydrolase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.1.1.75

CAS No.

9014-11-3

Reaction

$[(R)\text{-}3\text{-hydroxybutanoate}]_n + \text{H}_2\text{O} = [(R)\text{-}3\text{-hydroxybutanoate}]_{n-x} + [(R)\text{-}3\text{-hydroxybutanoate}]_x; x = 1\text{-}5$

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.