

phosphoglucan, water dikinase

Cat. No. EXWM-3352

Lot. No. (See product label)

Introduction

Description

The enzyme phosphorylates granular starch that has previously been phosphorylated by EC 2.7.9.4, α -glucan, water dikinase; there is no activity with unphosphorylated glucans. It transfers the β -phosphate of ATP to the phosphoglucan, whereas the γ -phosphate is transferred to water. In contrast to EC 2.7.9.4, which phosphorylates glucose groups in glucans on O-6, this enzyme phosphorylates glucose groups in phosphorylated starch on O-3. The protein phosphorylates itself with the β -phosphate of ATP, which is then transferred to the glucan.

Synonyms

PWD; OK1

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.9.5

CAS No.

912567-76-1

Reaction

$\text{ATP} + [\text{phospho-}\alpha\text{-glucan}] + \text{H}_2\text{O} = \text{AMP} + \text{O-phospho-}[\text{phospho-}\alpha\text{-glucan}] + \text{phosphate}$

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.