Creative Enzymes®

[Skp1-protein]-hydroxyproline N-acetylglucosaminyltransferase

Cat. No. EXWM-2458

Lot. No. (See product label)

Introduction

Description

Skp1 is a cytoplasmic and nuclear protein required for the ubiquitination of cell cycle regulatory proteins and transcriptional factors. In Dictyostelium Skp1 is modified by the linear pentasaccharide Galα1-6Galα1-L-Fucα1-2Galβ1-3GlcNAc, which is attached to a hydroxyproline residue at position 143. This enzyme catalyses the first step in the building up of the pentasaccharide by attaching an N-acetylglucosaminyl group to the hydroxyproline residue. It requires dithiothreitol and a divalent cation for activity.

Synonyms

Skp1-HyPro GlcNAc-transferase; UDP-N-acetylglucosamine (GlcNAc):hydroxyproline polypeptide GlcNAc-transferase; UDP-GlcNAc:Skp1-hydroxyproline GlcNAc-transferase; UDP-GlcNAc:hydroxyproline polypeptide GlcNAc-transferase; UDP-N-acetyl-D-glucosamine:[Skp1-protein]-hydroxyproline N-acetyl-D-glucosaminyl-transferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.229

CAS No.

256531-81-4

Reaction

UDP-N-acetyl-α-D-glucosamine + [Skp1-protein]-trans-4-hydroxy-L-proline = UDP + [Skp1-protein]-O-(N-acetyl-α-D-glucosaminyl)-trans-4-hydroxy-L-proline

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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.