

## [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 Gal $\alpha$ 1-6Gal $\alpha$ 1-L-Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc, 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- $\alpha$ -D-glucosamine + [Skp1-protein]-trans-4-hydroxy-L-proline = UDP + [Skp1-protein]-O-(N-acetyl- $\alpha$ -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 °C for short term. For long term storage, store it at -20 °C~-80 °C.