Creative Enzymes®

protein O-GlcNAc transferase

Cat. No. EXWM-2485

Lot. No. (See product label)

Introduction

Description Within higher eukaryotes post-translational modification of protein serines/threonines with N-acetylglucosamine (O-GlcNAc) is dynamic, inducible and abundant, regulating many cellular processes by interfering with protein phosphorylation. EC 2.4.1.255 (protein O-GlcNAc transferase) transfers GlcNAc onto substrate proteins and EC 3.2.1.169 (protein O-GlcNAcase) cleaves GlcNAc from the modified proteins.

Synonyms O-GlcNAc transferase; OGTase; O-linked N-acetylglucosaminyltransferase; uridine diphospho-N-acetylglucosamine:polypeptide β-N-acetylglucosaminyltransferase; protein O-linked β-N-acetylglucosamine transferase

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.255

Reaction (1) UDP-N-acetyl-α-D-glucosamine + [protein]-L-serine = UDP + [protein]-3-O-(N-acetyl-β-D-glucosaminyl)-L-serine; (2) UDP-N-acetyl-α-D-glucosamine + [protein]-L-threonine = UDP + [protein]-3-O-(N-acetyl-β-D-glucosaminyl)-L-threonine

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 ℃.