Creative Enzymes®

protein O-GlcNAcase

Cat. No. EXWM-3851

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	OGA; glycoside hydrolase O-GlcNAcase; O-GlcNAcase; BtGH84; O-GlcNAc hydrolase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.2.1.169
Reaction	(1) [protein]-3-O-(N-acetyl-β-D-glucosaminyl)-L-serine + H2O = [protein]-L-serine + N-acetyl-D-glucosamine; (2) [protein]-3-O-(N-acetyl-β-D-glucosaminyl)-L-theronine + H2O = [protein]-L-threonine + N-acetyl-D-glucosamine
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 ℃.