Creative Enzymes®

dolichyl-phosphooligosaccharide-protein glycotransferase

Cat. No. EXWM-2706

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the archaea Methanococcus voltae and Haloferax volcanii, transfers a glycan component from dolichyl phosphooligosaccharide to external proteins. It is different from EC 2.4.99.18, dolichyl-diphosphooligosaccharide-protein glycotransferase, which uses dolichyl diphosphate as carrier compound in bacteria and eukaryotes. The enzyme participates in the N-glycosylation of proteins in some archaea. It requires Mn2+. Dolichol used by archaea is different from that used by eukaryotes. It is much shorter (C55-C60), it is α,ω-saturated and it may have additional unsaturated positions in the chain.
Synonyms	AglB; archaeal oligosaccharyl transferase; dolichyl-monophosphooligosaccharide-protein glycotransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.99.21
Reaction	an archaeal dolichyl phosphooligosaccharide + [protein]-L-asparagine = an archaeal dolichyl phosphate + a glycoprotein with the oligosaccharide chain attached by N-β-D-glycosyl linkage to a protein L-asparagine
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 ℃.