

polymannosyl GlcNAc-diphospho-ditrans,octacis-undecaprenol kinase

Cat. No. EXWM-3013 Lot. No. (See product label)

Introduction

Description	The enzyme is involved in the biosynthesis of the polymannose O-polysaccharide in the outer leaflet of the
	membrane of Escherichia coli serotype O9a. O-Polysaccharide structures vary extensively because of
	differences in the number and type of sugars in the repeat unit. The dual kinase/methylase WbdD also
	catalyses the methylation of 3-phospho- α -D-Man-(1 \rightarrow 2)- α -D-Man-(1 \rightarrow 2)- α -D-Man-(1 \rightarrow 3)- α -D-Man-(1 \rightarrow 3)-[α -
	$D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 2)-\alpha-D-Man-(1\rightarrow 3)-\alpha-D-Man-(1\rightarrow 3)]n-\alpha-D-Man-(1\rightarrow 3)-\alpha-D-Man-(1\rightarrow 3)-\alpha-D-GlcNAc-(1\rightarrow 3)-\alpha-D-GlcNAc-(1\rightarrow 3)-\alpha-D-Man-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-\alpha-D-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-(1\rightarrow 3)-$
	α -diphospho-ditrans,octacis-undecaprenol (cf. EC 2.1.1.294, 3-phospho- α -D-Man-(1→2)- α -D-Man-(1→3)- α -
	D-Man-(1 \rightarrow 3)- α -D-Man-diphospho-ditrans,octacis-undecaprenol 3-phospho-methyltransferase)

Synonyms WbdD

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.1.181
Reaction	$\begin{split} ATP + \alpha - D-Man-(1 \rightarrow 2)-\alpha - D-Man-(1 \rightarrow 2)-\alpha - D-Man-(1 \rightarrow 3)-\alpha - D-Man-(1 \rightarrow 3)-[\alpha - D-Man-(1 \rightarrow 2)-\alpha - D-Man-(1 \rightarrow 2)-\alpha - D-Man-(1 \rightarrow 3)-\alpha - D-Man-$
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.