Creative Enzymes®

dTDP-4-dehydro-6-deoxyglucose reductase

Cat. No. EXWM-0172

Lot. No. (See product label)

Introduction

Description The enzymes from the Gram-negative bacteria Aggregatibacter actinomycetemcomitans and Escherichia coli O52 are involved in activation of fucose for incorporation into capsular polysaccharide O-antigens. The enzyme from the Gram-positive bacterium Anoxybacillus tepidamans (Geobacillus tepidamans) is involved in activation of fucose for incorporation into the organism's S-layer. The enzyme from Escherichia coli O52 has a higher catalytic efficiency with NADH than with NADPH.

Synonyms dTDP-4-keto-6-deoxyglucose reductase; dTDP-D-fucose:NADP+ oxidoreductase; Fcf1; dTDP-6-deoxy-D-xylo-hex-4-ulopyranose reductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.266

Reaction dTDP-α-D-fucopyranose + NAD(P)+ = dTDP-4-dehydro-6-deoxy-α-D-glucose + NAD(P)H + H+

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 ℃.