

## 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<sup>+</sup> 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- $\alpha$ -D-fucopyranose + NAD(P)<sup>+</sup> = dTDP-4-dehydro-6-deoxy- $\alpha$ -D-glucose + NAD(P)H + H<sup>+</sup>

**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.