

## dTDP-4-amino-4,6-dideoxy-D-glucose ammonia-lyase

Cat. No. EXWM-5290

Lot. No. (See product label)

### Introduction

**Description** The enzyme, which is a member of the 'AdoMet radical' (radical SAM) family, is involved in biosynthesis of TDP- $\alpha$ -D-desosamine. The reaction starts by the transfer of an electron from the reduced form of the enzyme's [4Fe-4S] cluster to S-adenosyl-L-methionine, splitting it into methionine and the radical 5-deoxyadenosin-5'-yl, which attacks the sugar substrate.

**Synonyms** desII (gene name); eryCV (gene name); MegCV

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.3.1.30

**Reaction** dTDP-4-amino-4,6-dideoxy- $\alpha$ -D-glucopyranose + S-adenosyl-L-methionine + reduced acceptor = dTDP-3-dehydro-4,6-dideoxy- $\alpha$ -D-glucopyranose + NH<sub>3</sub> + L-methionine + 5'-deoxyadenosine + acceptor

**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.