Creative Enzymes®

dTDP-4-dehydro-6-deoxy-α-D-glucopyranose 2,3-dehydratase

Cat. No. EXWM-5000

Lot. No. (See product label)

Introduction

Description	The enzyme participates in the biosynthesis of several deoxysugars, including β-L-4-epi-vancosamine, α-L-megosamine, L- and D-olivose, D-oliose, D-mycarose, forosamine and β-L-digitoxose. In vitro the intermediate can undergo a spontaneous decomposition to maltol.
Synonyms	jadO (gene name); evaA (gene name); megBVI (gene name); eryBV (gene name); mtmV (gene name); oleV (gene name); spnO (gene name); TDP-4-keto-6-deoxy-D-glucose 2,3-dehydratase; dTDP-4-dehydro-6-deoxy-α-D-glucopyranose hydro-lyase (dTDP-(2R,6S)-2,4-dihydroxy-6-methyl-2,6-dihydropyran-3-one-forming)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 4.2.1.159
Reaction	dTDP-4-dehydro-6-deoxy-α-D-glucopyranose = dTDP-3,4-didehydro-2,6-dideoxy-α-D-glucose + H2O (overall reaction); (1a) dTDP-4-dehydro-6-deoxy-α-D-glucopyranose = dTDP-2,6-dideoxy-D-glycero-hex-2-enos-4-ulose + H2O; (1b) dTDP-2,6-dideoxy-D-glycero-hex-2-enos-4-ulose = dTDP-3,4-didehydro-2,6-dideoxy-α-D-glucose (spontaneous)
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 ℃.