

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-dihdropyran-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 °C for short term. For long term storage, store it at -20 °C~-80 °C.