

UDP-N-acetyl-2-amino-2-deoxyglucuronate dehydrogenase

Cat. No. EXWM-0249

Lot. No. (See product label)

Introduction

Description This enzyme participates in the biosynthetic pathway for UDP-α-D-ManNAc3NAcA

(UDP-2,3-diacetamido-2,3-dideoxy- α -D-mannuronic acid), an important precursor of B-band lipopolysaccharide. The enzymes from Pseudomonas aeruginosa serotype O5 and Thermus thermophilus form a complex with the the enzyme catalysing the next step the pathway (EC 2.6.1.98, UDP-2-acetamido-2-deoxy-ribo-hexuluronate

aminotransferase). The enzyme also possesses an EC 1.1.99.2 (L-2-

hydroxyglutarate dehydrogenase) activity, and utilizes the 2-oxoglutarate produced by EC 2.6.1.98 to regenerate the tightly bound NAD+. The enzymes from

Bordetella pertussis and Chromobacterium violaceum do not bind NAD+ as tightly

1/1

and do not require 2-oxoglutarate to function.

Synonyms WlbA; WbpB

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.1.1.335

Reaction UDP-N-acetyl-2-amino-2-deoxy- α -D-glucuronate + NAD+ = UDP-2-acetamido-2-

deoxy- α -D-ribo-hex-3-uluronate + NADH + 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

Store it at +4 °C for short term. For long term storage, store it at -20 °C∼-80 °C.

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