Creative Enzymes®

UDP-N-acetylglucosamine 2-epimerase (hydrolysing)

Cat. No. EXWM-3867

Lot. No. (See product label)

Introduction

Description The enzyme is found in mammalian liver, as well as in some pathogenic bacteria including Neisseria meningitidis and Staphylococcus aureus. It catalyses the first step of sialic acid (N-acetylneuraminic acid) biosynthesis. The initial product formed is the α anomer, which rapidly mutarotates to a mixture of anomers. The mammalian enzyme is bifunctional and also catalyses EC 2.7.1.60, N-acetylmannosamine kinase.cf. EC 5.1.3.14, UDP-N-acetylglucosamine 2-epimerase (non-hydrolysing).

Synonyms UDP-N-acetylglucosamine 2-epimerase (ambiguous); GNE (gene name); siaA (gene name); neuC (gene name)

Product Information

Form Liquid or lyophilized powder

EC Number EC 3.2.1.183

Reaction UDP-N-acetyl-α-D-glucosamine + H2O = N-acetyl-D-mannosamine + UDP

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 ℃.