

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