

CMP-N-acetylneuraminate monooxygenase

Cat. No. EXWM-0964

Lot. No. (See product label)

Introduction

Description

This enzyme contains both a Rieske-type [2Fe-2S] cluster and a second iron site. The ferricytochrome b5 produced is reduced by NADH and cytochrome-b5 reductase (EC 1.6.2.2). The enzyme can be activated by Fe²⁺ or Fe³⁺.

Synonyms

CMP-N-acetylneuraminic acid hydroxylase; CMP-Neu5Ac hydroxylase; cytidine monophosphoacetylneuraminate monooxygenase; N-acetylneuraminic monooxygenase; cytidine-5'-monophosphate-N-acetylneuraminic acid hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.18.2

CAS No.

116036-67-0

Reaction

CMP-N-acetylneuraminate + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = CMP-N-glycoloylneuraminate + 2 ferricytochrome b5 + H₂O

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.