Creative Enzymes®

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