

nicotinate dehydrogenase (cytochrome)

Cat. No. EXWM-1085

Lot. No. (See product label)

Introduction

Description This two-component enzyme from *Pseudomonas* belongs to the family of xanthine dehydrogenases, but differs from most other members of this family. While most members contain an FAD cofactor, the large subunit of this enzyme contains three c-type cytochromes, enabling it to interact with the electron transfer chain, probably by delivering the electrons to a cytochrome oxidase. The small subunit contains a typical molybdopterin cytosine dinucleotide (MCD) cofactor and two [2Fe-2S] clusters.

Synonyms nicotinic acid hydroxylase; nicotinate hydroxylase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.17.2.1

Reaction $\text{nicotinate} + \text{a ferricytochrome} + \text{H}_2\text{O} = 6\text{-hydroxynicotinate} + \text{a ferrocycytochrome} + 2 \text{H}^+$

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

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