

ferric-chelate reductase (NADPH)

Cat. No. EXWM-1074

Lot. No. (See product label)

Introduction

Description

Contains FAD. The enzyme, which is widespread among bacteria, catalyses the reduction of ferric iron bound to a variety of iron chelators (siderophores), including ferric triscatecholates and ferric dicitrate, resulting in the release of ferrous iron. The enzyme from the bacterium *Escherichia coli* has the highest efficiency with the hydrolysed ferric enterobactin complex ferric N-(2,3-dihydroxybenzoyl)-L-serine. cf. EC 1.16.1.7, ferric-chelate reductase (NADH) and EC 1.16.1.10, ferric-chelate reductase [NAD(P)H].

Synonyms

ferric chelate reductase (ambiguous); iron chelate reductase (ambiguous); NADPH:Fe³⁺-EDTA reductase; NADPH-dependent ferric reductase; yqjH (gene name); Fe(II):NADP⁺ oxidoreductase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.16.1.9

CAS No.

120720-17-4

Reaction

2 Fe(II)-siderophore + NADP⁺ + H⁺ = 2 Fe(III)-siderophore + NADPH

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.