

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

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

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