Creative Enzymes®

ferric-chelate reductase (NADH)

Cat. No. EXWM-1072

Lot. No. (See product label)

Introduction

Description	Contains FAD. The enzyme catalyses the reduction of bound ferric iron in a variety of iron chelators (siderophores), resulting in the release of ferrous iron. The plant enzyme is involved in the transport of iron across plant plasma membranes. The enzyme from the bacterium Paracoccus denitrificans can also reduce chromate. cf. EC 1.16.1.9, ferric-chelate reductase (NADPH) and EC 1.16.1.10, ferric-chelate reductase [NAD(P)H].
Synonyms	ferric chelate reductase (ambiguous); iron chelate reductase (ambiguous); NADH:Fe3+-EDTA reductase; NADH2:Fe3+ oxidoreductase; ferB (gene name); Fe(II):NAD+ oxidoreductase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.16.1.7
CAS No.	120720-17-4
Reaction	2 Fe(II)-siderophore + NAD+ + H+ = 2 Fe(III)-siderophore + NADH
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 ℃.