

## 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:Fe<sup>3+</sup>-EDTA reductase; NADH<sub>2</sub>:Fe<sup>3+</sup> oxidoreductase; ferB (gene name); Fe(II):NAD<sup>+</sup> 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<sup>+</sup> + H<sup>+</sup> = 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.