

## NADPH-hemoprotein reductase

Cat. No. EXWM-1580

Lot. No. (See product label)

### Introduction

**Description** A flavoprotein containing both FMN and FAD. This enzyme catalyses the transfer of electrons from NADPH, an obligatory two-electron donor, to microsomal P-450 monooxygenases (e.g. EC 1.14.14.1, unspecific monooxygenase) by stabilizing the one-electron reduced form of the flavin cofactors FAD and FMN. It also reduces cytochrome b5 and cytochrome c. The number n in the equation is 1 if the hemoprotein undergoes a 2-electron reduction, and is 2 if it undergoes a 1-electron reduction.

**Synonyms** CPR; FAD-cytochrome c reductase; NADP-cytochrome c reductase; NADP-cytochrome reductase; NADPH-dependent cytochrome c reductase; NADPH:P-450 reductase; NADPH:ferrihemoprotein oxidoreductase; NADPH-cytochrome P-450 oxidoreductase; NADPH-cytochrome c oxidoreductase; NADPH-cytochrome c reductase; NADPH-cytochrome p-450 reductase; NADPH-ferricytochrome c oxidoreductase; NADPH-ferrihemoprotein reductase; TPNH2 cytochrome c reductase; TPNH-cytochrome c reductase; aldehyde reductase (NADPH-dependent); cytochrome P-450 reductase; cytochrome c reductase (reduced nicotinamide adenine dinucleotide phosphate, NADPH, NADPH-dependent); dihydroxynicotinamide adenine dinucleotide phosphate-cytochrome c reductase; ferrihemoprotein P-450 reductase; reduced nicotinamide adenine dinucleotide phosphate-cytochrome c reductase; reductase, cytochrome c (reduced nicotinamide adenine dinucleotide phosphate)

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 1.6.2.4

**CAS No.** 9023-03-4

**Reaction**  $\text{NADPH} + \text{H}^+ + n \text{ oxidized hemoprotein} = \text{NADP}^+ + n \text{ reduced hemoprotein}$

**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.