

## proton-translocating NAD(P)+ transhydrogenase

Cat. No. EXWM-1578

Lot. No. (See product label)

### Introduction

#### Description

The enzyme is a membrane bound proton-translocating pyridine nucleotide transhydrogenase that couples the reversible reduction of NADP by NADH to an inward proton translocation across the membrane. In the bacterium *Escherichia coli* the enzyme provides a major source of cytosolic NADPH. Detoxification of reactive oxygen species in mitochondria by glutathione peroxidases depends on NADPH produced by this enzyme.

#### Synonyms

pntA (gene name); pntB (gene name); NNT (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 7.1.1.1 (Formerly EC 1.6.1.5)

#### Reaction

$\text{NADPH} + \text{NAD}^+ + \text{H}^+[\text{side 1}] = \text{NADP}^+ + \text{NADH} + \text{H}^+[\text{side 2}]$

#### 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.