

## Nitroreductase from Escherichia coli, Recombinant

Cat. No. NATE-0488

Lot. No. (See product label)

## Introduction

**Description** Nitroreductase increases the sensitivity of organisms to nitro-containing drugs such as metronidazole by

converting the nitro group to a cytotoxic nitro radical. Shows ability to reduce quinines. Enzyme for

activating prodrugs in antibody directed enzyme prodrug therapy.

Applications Nitroreductase has been used in a study that used a set of PCR primers to clone a gene encoding a

hypothetical nitroreductases (named as Ssap-NtrB) from uropathogenic staphyl oc occus. It has also been used to improve prodrug activation. Nitroreductase from Escherichia coli has been used in a study to assess anaerobic bacteria as a gene delivery system for cancer treatment. It has also been used in a

study to investigate its applications in antibody-directed enzyme prodrug therapy.

**Synonyms** Nitroreductase

## **Product Information**

**Species** Escherichia coli

**Source** E. coli

Molecular Weight

*ecular* monomer mol wt 24 kDa

**Purity** > 90% (SDS-PAGE)

Pathway Microbial metabolism in diverse environments, organism-specific biosystem; Nitrotoluene degradation,

organism-specific biosystem; Nitrotoluene degradation, conserved biosystem

Unit One unit will reduce one μmole of Cytochrome C per minute in the presence of Menadione and NADH at

**Definition** pH 7.4 at 37°C.

## Storage and Shipping Information

*Storage* −20°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

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