

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 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,

1/1

conserved biosystem

Unit Definition One unit will reduce one μmole of Cytochrome C per minute in the presence of

Menadione and NADH at pH 7.4 at 37°C.

Storage and Shipping Information

Storage −20°C

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