

FMN Reductase from Escherichia coli (Fre), Recombinant

Cat. No. NATE-1744

Lot. No. (See product label)

Introduction

Description E.coli

Applications Bacterial (E. coli) NAD(P)H-dependent FMN-oxidoreductase is a recombinant protein

of ca. 26kDa overexpressed in E.coli. The sequence of cloned Fre (SwissProt accession number P0AEN1) was confirmed by DNA sequencing (100% identity).

Synonyms NAD(P)H:flavin oxidoreductase; NAD(P)H:flavin mono-nucleotide oxidoreductase;

NAD(P)H(2):FMN oxidoreductase; NAD(P)H-FMN reductase; NAD(P)H-dependent FMN reductase; NAD(P)H:FMN oxidoreductase; riboflavin mononucleotide

reductase; flavin mononucleotide reductase

Product Information

Species FMN Reductase

Appearance Coupling of bacterial luciferase to FMN-NAD(P)H oxidoreductase has been used to

provide ultrasensitive analytical tools for the quantification of NADH and the substrates of NADH-, NADPH- dependent enzymes (e.g. glucose, lactate, malate, ethanol, sorbitol, oxaloacetate). Although FMN-reductase often present in luciferase enzyme preparations may be sufficient for producing light in the presence of NAD(P)H, highly purified and characterized Fre enzyme can offer some advantages such as an increased sensitivity, better control of the signal intensity and duration,

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and saving of the luciferase enzyme.

EC Number EC 1.5.1.29

Molecular Weight 26kDa

Activity >2U/mg

Unit Definition One unit of FMN-reductase converts 1.0 μmole of FMN and NADH to FMNH2 and

NAD per minute at pH 7.9 at 37°C.

Usage and Packaging

Package stable lyophilized form

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