

Recombinant E.coli nfsB protein

Catalog Number: ATGP0648

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-217aa

UniProt No.

P38489

NCBI Accession No.

NP_415110

Alternative Names

Oxygen-insensitive NAD(P)H nitroreductase, Dihydropteridine reductase, FMN-dependent nitroreductase, dprA, nfnB

PRODUCT SPECIFICATION

Molecular Weight

26.0 kDa (237aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl, 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NFNB, also known as NFSB, shows the ability to reduce quinines. This protein is an enzyme for activating prodrugs in antibody directed enzyme prodrug therapy. It also capable of reducing nitrofurazone, quinones and the anti-tumor agent CB1954 (5- (aziridin-1-yl) -2, 4-dinitrobenzamide). The reduction of CB1954 results in the generation of cytotoxic species. Recombinant E. coli NFNB protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MDIISVALKR HSTKAFDASK KLTPEQAEQI KTLQYSPSS TNSQPWHFIV ASTEEGKARV
AKSAAGNYVF NERKMLDASH VVVFCAKTAM DDVWLKLVVD QEDADGRFAT PEAKAANDKG RKFFADMHRK
DLHDDAEWMA KQVYLNVGNF LLGVAALGLD AVPIEGFDAA ILDAEFGLE KGYTSLVVVP VGHHSVEDFN ATLPKSRLPQ
NITLTEV

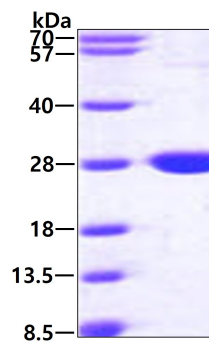
General References

Jarrom D., et al. (2009) *Biochemistry*. 48(32):7665-72.

Singleton DC., et al. (2007) *Cancer Gene Ther*. 14(12):953-67.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.