

NFNB, bacterial recombinant protein**Dihydropteridine reductase, NAD(P)H-dependent, oxygen-insensitive, dprA, nfsB, nfsI, ntr.****Catalog # PBV11389r****Specification**

NFNB, bacterial recombinant protein - Product info

Primary Accession	A1A8L0
Concentration	1
Calculated MW	26.0 kDa (237 aa, 1-217 aa + His Tag) KDa

NFNB, bacterial recombinant protein - Additional Info

Gene ID	4493867
Gene Symbol	NFNB
Other Names	
Dihydropteridine reductase, NAD(P)H-dependent, oxygen-insensitive, dprA, nfsB, nfsI, ntr.	

Gene Source	E. Coli
Source	E.coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	Specific activity: > 2 units/ml
Sequence	MGSSHHHHHH SSGLVPRGSH MDIISVALKR HSTKAFDASK KLTPEQAEQI KTLQYSPSS TNSQPWHFIV ASTEEGKARV AKSAAGNYVF NERKMLDASH VVVFCAKTAM DDVWLKLVVD QEDADGRFAT PEAKAANDKG RKFFADMHRK DLHDDAEWMA KQVYLVGNF LLGVAALGLD AVPIEGFDAA ILDAEFGLE KGYTSLVVVP VGHHSVEDFN ATLPKSRLPQ NITLTEV

Target/Specificity

NFNB

Format

Liquid

Storage

-20°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT and 50 mM NaCl

NFNB, bacterial recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

NFNB, bacterial recombinant protein - Images**NFNB, bacterial recombinant protein - Background**

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.