Recombinant E.coli NfsB, His-tagged

Cat. No. nfsB-2767E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli NFNB protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW = 26.0 kDa (237aa).
Species	E.coli
Source	E.coli
Description	NFNB, also known as NFSB, shows the ability to reduce quinines. This protein is an e nzyme for activating prodrugs in antibody directed enzyme prodrug therapy. It also ca pable of reducing nitrofurazone, quinones and the anti-tumor agent CB1954 (5-(aziridi n-1-yl)-2,4-dinitrobenzamide). The reduction of CB1954 results in the generation of cy totoxic species.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 50mM Nacl, 1mM DTT, 10% glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MDIISVALKR HSTKAFDASK KLTPEQAEQI KTL LQY SPSS TNSQPWHFIV ASTEEGKARV AKSAAGNYVF NERKMLDASH VVVF CAKTAM DDVWLKLVVD QEDADGRFAT PEAKAANDKG RKFFADMHRK DLHD DAE WMA KQV YLNVGNF LLGVAALGLD AVPIEGFDAA ILDAEFGLKE KGYT

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	SLVVV P VGHHSVEDFN ATLPKSRLPQ NITLTEV.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Trinitrotoluene degradation

GENE INFORMATION

Gene Name	nfsB dihydropteridine reductase, NAD(P)H-dependent, oxygen-insensitive [Escherichia coli str. K-12 substr. MG1655]
Synonyms	dihydropteridine reductase, NAD(P)H-dependent, oxygen-insensitive; dprA; ECK0570; JW0567; nfnB; nfsI; ntr; oxygen-insensitive NAD(P)H nitroreductase
Gene ID	945778
Protein Refseq	NP_415110

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