

NAD(P)H-flavin reductase Protein, E.coli (His)

Cat. No.:	HY-P71709
Synonyms:	fre; fadI; flrD; fsrC; ubiB; b3844; FMN reductase; Ferrisiderophore reductase C
Species:	E.coli
Source:	E. coli
Accession:	POAEN1 (2T-233I)
Gene ID:	58462182
Molecular Weight:	Approximately 30.1 kDa

PROPERTIES

AA Sequence	<pre> T T L S C K V T S V E A I T D T V Y R V R I V P D A A F S F R A G Q Y L M V V M D E R D K R P F S M A S T P D E K G F I E L H I G A S E I N L Y A K A V M D R I L K D H Q I V V D I P H G E A W L R D D E E R P M I L I A G G T G F S Y A R S I L L T A L A R N P N R D I T I Y W G G R E E Q H L Y D L C E L E A L S L K H P G L Q V V P V V E Q P E A G W R G R T G T V L T A V L Q D H G T L A E H D I Y I A G R F E M A K I A R D L F C S E R N A R E D R L F G D A F A F I </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The NAD(P)H-flavin reductase protein is an enzyme that catalyzes the reduction of soluble flavins using reduced pyridine nucleotides, such as NADH or NADPH. This enzymatic activity is crucial for maintaining cellular redox balance and is involved in various metabolic processes where flavin coenzymes serve as electron carriers. By utilizing reduced pyridine nucleotides, NAD(P)H-flavin reductase plays a key role in transferring electrons to flavins, thereby contributing to the regulation of cellular oxidative stress and the redox state. This enzyme's involvement in flavin reduction underscores its significance in diverse biological pathways and highlights its role in modulating cellular responses to oxidative conditions.</p>
-------------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA