

Recombinant human Ferric uptake regulator/FuR protein

Catalog Number: FUR0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-148aa

UniProt No.

P0A9A9

NCBI Accession No.

NP_415209

Alternative Names

DNA-binding transcriptional dual regulator of siderophore biosynthesis and transport, Ferric uptake regulator, FuR, ECK0671, Ferric uptake regulation protein, JW0669.

PRODUCT SPECIFICATION

Molecular Weight

16.7 kDa (148aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM CaCl₂, 100mM NaCl

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

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

Fur (ferric uptake regulator) protein is a DNA-binding protein which regulates iron-responsive genes. Fur is a small, 17-kDa, global transcriptional repressor that in the presence of iron regulates functions as diverse as iron acquisition, oxidative stress, and virulence. In Escherichia coli, members of the Fur family regulate the expression of more than 100 genes that function in processes as varied as the biosynthesis and transport of siderophores, the expression of virulence factors, the alleviation of oxidative and NO-induced stress, and the

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inhibition of ferritin production through the expression of RyhB. Recombinant FuR was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MTDNNTALKK AGLKVTLPRLL KILEVLQEPD NHHVSAEDLY KRLIDMGEEI GLATVYRVLN QFDDAGIVTR HNFEGGKSVF
ELTQQHHHDH LICLDCGKVI EFSDDSI EAR QREIAAKHGI RL TNHSLYLY GHCAEGDCRE DEHAHEGK

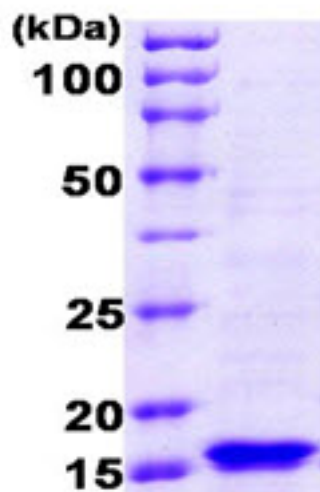
General References

O'Sullivan DJ., et al. (1994). *FEMS Microbiol Lett.* Apr 15
117(3):327-32

Mills SA., et al. (2005) *Biochemistry.* Oct 18
44(41):13553-9

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)