

# Recombinant human Ferric uptake regulator/FuR protein

Catalog Number: FUR0801

## PRODUCT INFORMATION

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### 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

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### 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 CaCl<sub>2</sub>, 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

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### 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

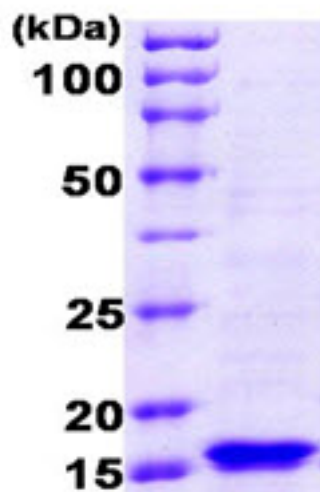
## General References

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)