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

Recombinant human Ferric uptake regulator/FuR protein

Catalog Number: FUR0801

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

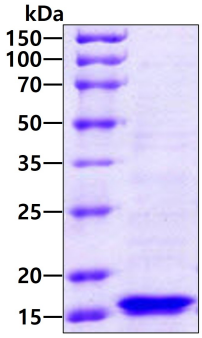
MTDNNTALKK AGLKVTLPRL KILEVLQEPD NHHVSAEDLY KRLIDMGEEI GLATVYRVLN QFDDAGIVTR HNFEGGKSVF ELTQQHHHDH LICLDCGKVI EFSDDSIEAR QREIAAKHGI RLTNHSLYLY GHCAEGDCRE DEHAHEGK

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.