

Recombinant E.coli Fur DNA-binding Transcriptional Dual Regulator of Siderophore Biosynthesis and Transport

Cat. No. FUR-354E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli FUR was expressed in E.coli and purified by using conventional chromatography techniques, 16.7kDa (148aa).
Species	E.coli
Source	E.coli
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 inhibition of ferritin production through the expression of RyhB.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM CaCl ₂ , 100 mM NaCl
Purity	> 95% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino acids	MTDNNTALKK AGLKVTL PRL KILEVLQEPD NHHVSAEDLY KRLIDMGEEI GLATVYRVLN QFDDAGIVTR HNFEGGKSVF ELTQQHHHDH LICLDCGK VI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EFSDDSIEAR QREIAAKHGI RLTNHSLYLY GHCAEGDCRE DEHAHEGK

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.

GENE INFORMATION
Gene Name

Fur DNA-binding transcriptional dual regulator of siderophore biosynthesis and transport [*Escherichia coli* str. K-12 substr. MG1655]

Synonyms

DNA-binding transcriptional dual regulator of siderophore biosynthesis and transport; Ferric uptake regulator; FUR.

Gene ID

945295

MIM

136850

UniProt ID

P0A9A9

Function

transcription repressor activity

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