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## Product Data Sheet

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Product Name: FUR E.Coli  
 Cat. No.: GP23518  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ECs0714; Ferric uptake regulation protein; Ferric uptake regulator; Z0831; FUR; ECK0671; JW0669; b0683.		
Amino Acid Sequence	MTDNNTALKK AGLKVTLPRLL KILEVLQEPD NHHVSAEDLY KRLIDMGEEI GLATVYRVLN QFDDAGIVTR HNFEGGKSVF ELTQQHHHDH LICLDCGKVI EFSDDSIAR QREIAAKHGI RLTNHSLYLY GHCAEGDCRE DEHAHEGK.		
Formulation	The Ferric Uptake Regulator protein solution (1mg/ml) contains 20mM Tris-HCl pH-8, 2mM CaCl <sub>2</sub> and 100mM NaCl.		

### Introduction

Ferric Uptake Regulator protein NCBI Accession No.: NP\_415209 is a DNA-binding protein which controls iron-responsive genes. Ferric Uptake Regulator has a molecular mass of 17-kDa and plays a role in global transcriptional repressor that in the existence of iron regulates functions as diverse as iron acquisition, oxidative stress, and virulence. In Escherichia coli, members of the Ferric Uptake Regulator family regulate the expression of at least 100 genes that function in processes as diverse 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Ferric Uptake Regulator Recombinant produced in E.Coli is a single, non-glycosylated

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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polypeptide chain containing 148 amino acids and having a molecular mass of 16.7kDa.

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