

Recombinant E.Coli Ferric Uptake Regulator

Cat. No. fur-4363E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Ferric Uptake Regulator Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 148 amino acids and having a molecular mass of 16 kDa.
Species	E.coli
Source	E.coli
Description	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.
Form	The Ferric Uptake Regulator protein solution contains 20mM Tris pH-8, 2mM CaCl ₂ , and 100mM NaCl.
Purity	Greater than 90.0% as determined by (a) Analysis by RP-HPLC; (b) Analysis by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.

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Amino Acid Sequence	MTDNNTALKKAGLKVTLPRCLKILEVLQEPDNHHVSAEDLYK RLIDMGEEIGLATVYRV LNQFDDAGIVTRHNFEG GKSVFELTQQHHHDHLCIDCGKVIEFSDDSIARQ REIA AKHGIRLTNHSLYLYGHCAEGDCREDEHAHEGK.
Storage	Ferric Uptake Regulator although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Functions	transcription repressor activity
GENE INFORMATION	
Gene Name	fur DNA-binding transcriptional dual regulator of siderophore biosynthesis and transport [<i>Escherichia coli</i> str. K-12 substr. MG1655]
Official Symbol	fur
Synonyms	fur; ECs0714; Ferric uptake regulation protein; Ferric uptake regulator; Z0831; FUR; ECK0671; JW0669; b0683
Gene ID	945295
Protein Refseq	NP_415209
UniProt ID	P0A9A9