



Product Datasheet

Product Name	Ferric Uptake Regulator E.Coli Recombinant
Cata No	CB501479
Source	<i>Escherichia Coli.</i>
Synonyms	ECs0714, Ferric uptake regulation protein, Ferric uptake regulator, Z0831, FUR, ECK0671, JW0669, b0683.

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. 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.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

The Ferric Uptake Regulator protein solution

contains 20mM Tris pH-8, 2mM CaCl₂, and 100mM NaCl.

Stability

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.

Sequence

MTDNNTALKK AGLKVTLPR L KILEVLQEPD
NHHVSAEDLY KRLIDMGEEI GLATVYRVLN
QFDDAGIVTR HNFEGGKSVF ELTQQHHHDH
LICLDCGKVI EFSDDSIEAR QREIAAKHGI
RLTNHSLYLY GHCAEGDCRE DEHAHEGK.

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