

SurA, 21-428aa, E.coli, His tag, E.coli

Cat.NO.: TP04100

3th Edition

Synonyms:PPIase surA, Rotamase surA, Survival protein A, Chaperone surA

Description:SurA is a periplasmic peptidyl-prolyl isomerase (PPIase) and chaperone of Escherichia coli and other Gram-negative bacteria. This protein is a major factor in the biogenesis of beta-barrel outer membrane proteins (OMPs) and plays an integral role in cell envelope homeostasis and cell envelope functions. It is essential for the survival of E.coli in stationary phase and required for pilus biogenesis. Recombinant E.coli SurA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% Glycerol

Molecular Weight:47.3 kDa(429aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMAPQVVDKVAAVVNGVVLESDVDGLMQSVKLNAAQARQQLPDDATLRHQIME
RLIMDQIILQMGQKMGVKISDEQLDQAIANIAKQNNMTLDQMRSRLAYDGLNYNTYRNQIRKEMIIEVRNNEVRRRI
TILPQEVESLAQQVGNQNDASTELNLSHILIPENPTSDQVNEAESQARAIVDQARNGADFGKLAIAHSADQQALN
GGQMGWGRIQELPGIFAQALSTAKKGDIVGPIRSGVGFHILKVNDLRGESKNISVTEVHARHILLKPSPIMTDEQARV
KLEQIAADIKSGKTTFAAAAKEFSQDPGSANQGGDLGWATPDIFDPAFRDALTRLNKGQMSAPVHSSFGWHLIELL
DTRNVDKTDAAQKDRAYRMLMNRKFSEEAASWMQEQRASAYVKILSN

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.