

SurA active protein

SurA, 21-428aa, E Coli, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48603	HOST E Coli	APPLICATIONS SDS-Page
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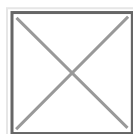
PRODUCT SYNONYMS

SurA; 21-428aa; E Coli; His tag; E Coli (Bioactivity Validated); Chaperone surA; PPlase surA; Rotamase surA; Survival protein A; SurA active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MAPQVVDKVA AVVNNGVVLE SDVDGLMQSV KLNAAQARQQ LPDDATLRHQ IMERLIMDQI ILQMGQKMGV KISDEQLDQA IANIAKQNNM TLDQMRSRLA YDGLNYNTYR NQIRKEMIIS EVRNNEVRRR ITILPQEVES LAQQVGNQND ASTELNLSHI LIPLPENPTS DQVNEAESQA RAIVDQARNG ADFGKLAIAH SADQQALNGG QMGWGRIQEL PGIFAQALST AKKGDIVGPI RSGVGFHILK VNDLRGESKN ISVTEVHARH ILLKPSPIMT DEQARVKLEQ IAADIKSGKT TFAAAAKEFS QDPGSANQGG DLGWATPDIF DPAFRDALTR LNKGQMSAPV HSSFGWHLIE LLDTRNVDKT DAAQKDRAYR MLMNRKFSEE AASWMQEQR SAYVKILSN
Sequence Length	428
Applicable Applications for SurA active protein	SDS-PAGE
Antigen Species	E Coli
Tag Information	His-tag
Biological Activity	Specific activity is > 800 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SurA active protein	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.
Product Categories/Family for SurA active protein	Heat Shock Proteins
References	Virlogeux-Payant I., et al (2009) Microbiology. 155 (Pt 5):1613-22; Kolter R., et al. (1996) J Bacteriol. 178 (6):1770-3.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	16128047
NCBI GeneID	944812
NCBI Accession #	NP_414595
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0ABZ6; P21202; P75630; Q8KIP6; Q8KMY0
Molecular Weight	47.3 kDa (429aa), confirmed by MALDI-TOF
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase (PPIase)
NCBI Official Symbol	surA
NCBI Official Synonym Symbols	ECK0054; JW0052
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase (PPIase)
UniProt Protein Name	Chaperone SurA
UniProt Gene Name	surA
UniProt Synonym Gene Names	PPIase SurA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/sura/48603>