Recombinant Escherichia coli Chaperone surA(surA)

Catalog No: #AP71142

Package Size: #AP71142-1 20ug #AP71142-2 100ug #AP71142-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Escherichia coli Chaperone surA(surA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:21-428aaSequence Info:Full Length
Other Names	Peptidyl-prolyl cis-trans isomerase SurA (EC:5.2.1.8) ;PPIase SurARotamase SurASurvival protein A
Accession No.	P0ABZ6
Calculated MW	61.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	APQVVDKVAAVVNNGVVLESDVDGLMQSVKLNAAQARQQLPDDATLRHQIMERLIMDQIILQMGQKMGVKIS DEQLDQAIANIAKQNNMTLDQMRSRLAYDGLNYNTYRNQIRKEMIISEVRNNEVRRRITILPQEVESLAQQVGN QNDASTELNLSHILIPLPENPTSDQVNEAESQARAIVDQARNGADFGKLAIAHSADQQALNGGQMGWGRIQEL PGIFAQALSTAKKGDIVGPIRSGVGFHILKVNDLRGESKNISVTEVHARHILLKPSPIMTDEQARVKLEQIAADIKS GKTTFAAAAKEFSQDPGSANQGGDLGWATPDIFDPAFRDALTRLNKGQMSAPVHSSFGWHLIELLDTRNVDK TDAAQKDRAYRMLMNRKFSEEAASWMQEQRASAYVKILSN
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Chaperone involved in the correct folding and assbly of outer mbrane proteins, such as OmpA, OmpF and LamB. Recognizes specific patterns of aromatic residues and the orientation of their side chains, which are found more frequently in integral outer mbrane proteins. May act in both early periplasmic and late outer mbrane-associated steps of protein maturation. Essential for the survival of E.coli in stationary phase. Required for pilus biogenesis.

References

Crystallographic structure of SurA, a molecular chaperone that facilitates folding of outer membrane porins.Bitto E., McKay D.B.Structure 10:1489-1498(2002) Research Topic:Others