

SURA E.Coli

Description: SURA E.Coli Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 429 amino acids (21-428 a.a.) and having a molecular weight of 47.3kDa. The SURA is fused to 20 a.a His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #: ENPS-264

For research use only.

Synonyms: Rotamase surA, Survival protein A.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAPQVVDKVA AVVNNGVVLE
SDVDGLMQSV KLNAAQARQQ LPDDATLRHQ IMERLIMDQI ILQMGQKMGV KISDEQLDQA
IANIAKQNNM TLDQMRSRLA YDGLNYNTYR NQIRKEMIIS EVRNNEVRRR ITILPQEVES
LAQQVGNQND ASTELNLSHI LIPLPENPTS DQVNEAESQA RAVDQARNG ADFGKLAIAH
SADQQALNGG QM

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The SURA 1mg/ml protein solution contains 20mM Tris-HCl, pH-8, and 10% glycerol.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

SURA is a PPIase enzyme and chaperone of Escherichia coli and other Gram-negative bacteria. SURA is a key player in the biogenesis of beta-barrel outer membrane proteins and is involved in cell envelope homeostasis and cell envelope functions. SURA is necessary for the survival of E.coli in stationary phase and needed for pilus biogenesis.

Biological Activity:

Specific activity is > 450 nmoles/min/μg, and is defined as the amount of enzyme that cleaves 1μmole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

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