Recombinant E.coli secB protein

Catalog Number: ATGP0318

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-155aa

UniProt No.
P0AG86

NCBI Accession No.
NP_418066

Alternative Names
Protein export chaperone, SecB, Protein export protein secB, Chaperone SecB

PRODUCT SPECIFICATION

Molecular Weight
17.2 kDa (155aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
SecB, a remarkable chaperone involved in protein export, binds diverse ligands rapidly with high affinity and low specificity. It plays a crucial role during protein export via the general secretory pathway by modulating the partitioning of precursors between folding or aggregation and delivery to the membrane-bound translocation apparatus. SecB has the potential to participate in functions outside of export acting as a general nonspecific chaperone to provide buffering capacity of the nonnative state of proteins in the cytosolic pool. Recombinant E. coli SecB protein was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

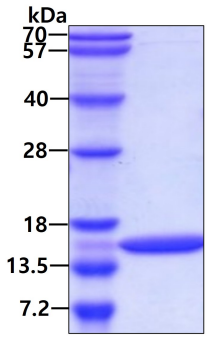
MSEQNNTEMT FQIQRIYTKD ISFEAPNAPH VFQKDWQPEV KLDLDTASSQ LADDVYEVVL RVTVTASLGE ETAFLCEVQQ GGIFSIAGIE GTQMAHCLGA YCPNILFPYA RECITSMVSR GTFPQLNLAP VNFDALFMNY LQQQAGEGTE EHQDA

General References

Driessen AJ., et al. (2008), Annu Rev Biochem. 77:643-67.
Bechtluft P., et al. (2007). Science. 318(5855):1458-61.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.