

# Recombinant E.coli SlyD protein

Catalog Number: SLD0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-196aa

### UniProt No.

P0A9K9

### NCBI Accession No.

NP\_755987

### Alternative Names

FKBP-type peptidyl-prolyl cis-trans isomerase, FKBP-type peptidyl-prolyl cis-trans isomerase, SlyD, FKBP-type peptidyl-prolyl cis-trans isomerase FKBP type peptidyl prolyl cis trans isomerase slyD, Histidine rich protein, PPIase, Rotamase, WHP.

## PRODUCT SPECIFICATION

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### Molecular Weight

21 kDa (196aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5)

### Purity

> 95% by SDS-PAGE

### Biological Activity

Specific activity is > 700nmol/min/mg, and is defined as the amount of enzyme cleaves 1nmol of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

### Tag

Non-Tagged

### Application

SDS-PAGE, Enzyme Activity

### 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

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### Description

SlyD is a putative folding helper protein from the Escherichia coli cytosol, which consists of an N-terminal prolyl

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isomerase domain of the FKBP type and a presumably unstructured C-terminal tail. It is involved in the biosynthesis of the metal cluster in the [NiFe]-hydrogenase enzymes, and exhibits several activities including that of a peptidyl-prolyl isomerase. Recombinant E. Coli slyD was expressed in E. coli and purified by conventional chromatography.

## Amino acid Sequence

MKVAKDLVVS LAYQVRTEDG VLVDESPVSA PLDYLVHGHGS LISGLETAL E GHEVGDKFDV AVGANDAYGQ YDENLVQRVP  
KDVFMGVDEL QVGMRFLET DQGPVPEIT AVEDDHVVVD GNHMLAGQNL KFNVEVVAIR EATEEELA HG  
HVHGAHDHHH DHDHDGCCGG HGHDHGHEHG GEGCCGGKGN GCGCH

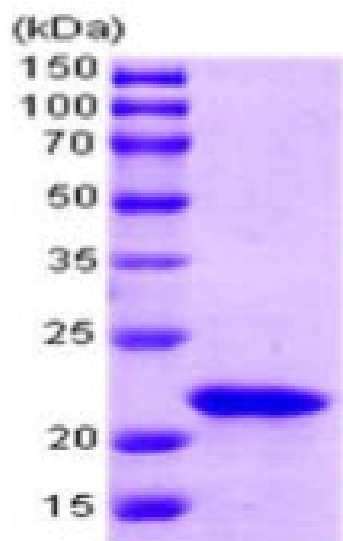
## General References

Zhang JW., et al. (2007) J Bacteriol. 189(21):7942-4.

Scholz C., et al. (2006) Biochemistry. 45(1):20-33.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)