
Product Data Sheet

Product Name: SlyD E.Coli
 Cat. No.: GP22250
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | FKBP-Type Peptidyl-Prolyl Cis-Trans Isomerase; SlyD. | | |
| Amino Acid Sequence | MKVAKDLVVS LAYQVRTEDG VLVDESPVSA PLDYLHGHGS LISGLETAL GHEVGDKFDV AVGANDAYGQ YDENLVQRVP KDVFMGVDEL QVGMFLAET DQGPVPVEIT AVEDDHVVVD GNHMLAGQNL KFNVEVVAIR EATEEELAHG HVHGAHDHHH DHDHDGCCGG HGHDHGHEHG GEGCCGGKGN GGCGCH. | | |
| Formulation | SlyD protein solution contains 20mM Tris pH-7.5. | | |

Introduction

SlyD accession#: NP_755987 is a putative folding helper protein from the Escherichia coli cytosol, which has N-terminal prolyl isomerase domain of the FKBP type and a most likely unstructured C-terminal tail. SlyD is an important factor in the biosynthesis of the metal cluster in the [NiFe]-hydrogenase enzymes, and exhibits several activities including that of a peptidyl-prolyl isomerase.

Biological Activity

Specific activity is > 220 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.

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). Please prevent freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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SlyD Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 196 amino acids and having a molecular mass of 21 kDa.

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