

## Product datasheet for AR03015PU-N

### slyD (1-196) Escherichia coli Protein

**Product data:** 

**Product Type: Recombinant Proteins** 

**Description:** slyD (1-196) e. coli recombinant protein, 0.1 mg

Species: Escherichia coli

**Expression Host:** E. coli

**Expression cDNA Clone** 

MKVAKDLVVS LAYQVRTEDG VLVDESPVSA PLDYLHGHGS LISGLETALE GHEVGDKFDV AVGANDAYGQ YDENLVQRVP KDVFMGVDEL QVGMRFLAET DQGPVPVEIT AVEDDHVVVD or AA Sequence:

GNHMLAGONL KFNVEVVAIR EATEELAHG HVHGAHDHHH DHDHDGCCGG HGHDHGHEHG

GEGCCGGKGN GGCGCH

Predicted MW: 21 kDa

Concentration: lot specific

>95% by SDS PAGE **Purity:** 

**Buffer:** Presentation State: Purified

> State: Liquid purified protein Buffer System: 20 mM Tris pH 7.5

**Bioactivity:** Specific: > 220 nmoles/min/mg, defined as the amount of enzyme that cleaves

1 umole of suc-AAPF-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin.

Liquid purified protein **Preparation:** 

**Applications:** Protocol: **Activity Assay** 

1. Prepare 170 ul assay buffer into a suitable container and pre-chill on ice before use:

The final concentrations are 200 mM Tris-HCl, pH 8.0, and 20nM chymotrypsin.

2. Add 10 ul of recombinant SlyD protein with 1 ug in assay buffer.

3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant

using a spectrophotometer.

4. Add 20 ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained

460mM LiCl to a concentration of 3 mM)

5. Record the increase in A405 nm for 30 minutes at 25°C.

**Protein Description:** Recombinant E.coli slyD was expressed in E.coli and purified by conventional

chromatography.



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Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

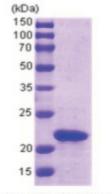
**Stability:** Shelf life: one year from despatch.

**Summary:** SlyD is a putative folding helper protein from the Escherichia coli cytosol, which consists of an

N-terminal prolyl 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.

# **Product images:**



15% SDS-PAGE(3 μg)