Active Recombinant Full Length E.coli FKBP-type Peptidyl-prolyl Cis-trans Isomerase/SlyD Protein

Cat. No. SlyD-329E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.Coli slyD was expressed in E.coli and purified by conventional chromatography techniques (196 aa, 21 kDa).
Species	E.coli
Source	E.coli
ProteinLength	1-196 a.a.
Description	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.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5).
Molecular Weight	21 kDa (196 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MKVAKDLVVS LAYQVRTEDG VLVDESPVSA PLDYLHGHGS LISGLETALE

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	GHEVGDKFDV AVGANDAYGQ YDENLVQRVP KDVFMGVDEL QVGMRFLAET DQGPVPVEIT AVEDDHVVVD GNHMLAGQNL KFNVEVVAIR EATEEELAHG HVHGAHDHHH DHDHDGCCGG HGHDHGHEHG GEGCCGGKGN GGCGCH
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 25°C in Tris-Hcl pH8.0 using chymotrypsin.
Activity Assay	1. Prepare 170ul 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 10ul of recombinant SlyD protein with 1ug 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 20ul 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.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	slyD FKBP-type peptidyl-prolyl cis-trans isomerase [Escherichia coli CFT073]
Synonyms	slyD; FKBP-type peptidyl-prolyl cis-trans isomerase; slyD FKBP-type peptidyl-prolyl cis-trans isomerase.
Gene ID	1036353
Protein Refseq	NP_755987.1
UniProt ID	P0A9L0

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