

# Recombinant human SDSL protein

Catalog Number: ATGP1245

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-329aa

### UniProt No.

Q96GA7

### NCBI Accession No.

NP\_612441

### Alternative Names

Serine dehydratase-like, SDH 2, SDS-RS1, TDH

## PRODUCT SPECIFICATION

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### Molecular Weight

37.3 kDa (353aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### 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

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### Description

SDSL (serine dehydratase-like) is like L-serine dehydratase, uses pyridoxal phosphate. L-serine dehydratase, known simply as serine dehydratase (SDS), is one of three main enzymes that are involved in the metabolism of Glycine and serine. One of several members of the serine/threonine dehydratase family, SDSL may function as a serinespecific dehydratase that plays a role in protein metabolism. It has low serine dehydratase and threonine dehydratase activity. Recombinant human SDSL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGSH>MDGPVA EHAKQEPFHV VTPLESWAL SQVAGMPVFL KCENVQPSGS  
FKIRGIGHFC QEMAKKGRH LVCSSGGNAG IAAAYAARKL GIPATIVLPE STSLQVVQRL QGEGAEVQLT GKVDDEANLR  
AQELAKRDGW ENVPPFDHPL IWKGHASLVQ ELKAVLRTPP GALVLAVGGG GLLAGVVAGL LEVGWQHVP I AMETHGAHC  
FNAAITAGKL VTLPDITSVA KSLGAKTVAA RALECMQVCK IHSEVVEDTE AVSAVQQLD DERMLVEPAC GAALAIYS  
LLRRLQAEGL LPPSLTSVVV IVCGGNNINS RELQALKTHL GQV

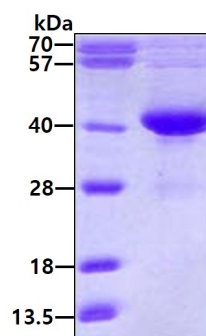
## General References

Yamada T., et al. (2008) *Biochim. Biophys. Acta* 1780:809-818

Xue, H.H., et al. (1999) *J. Biol. Chem.* 274: 16028-16033.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain