## PRODUCT INFORMATION

## 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

## Molecular Weight

37.3 kDa (353aa) confirmed by MALDI-TOF

## Concentration

$0.5 \mathrm{mg} / \mathrm{ml}$ (determined by Bradford assay)

## Formulation

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

## Purity

> 90\% by SDS-PAGE

## Tag

His-Tag

## Application

SDS-PAGE

## Storage Condition

Can be stored at +2 C to +8 C for 1 week. For long term storage, aliquot and store at -20 C to -80 C . Avoid repeated freezing and thawing cycles.

## BACKGROUND

## 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.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MDGPVA EHAKQEPFHV VTPLLESWAL SQVAGMPVFL KCENVQPSGS FKIRGIGHFC QEMAKKGCRH LVCSSGGNAG IAAAYAARKL GIPATIVLPE STSLQVVQRL QGEGAEVQLT GKVWDEANLR AQELAKRDGW ENVPPFDHPL IWKGHASLVQ ELKAVLRTPP GALVLAVGGG GLLAGVVAGL LEVGWQHVPI IAMETHGAHC FNAAITAGKL VTLPDITSVA KSLGAKTVAA RALECMQVCK IHSEVVEDTE AVSAVQQLLD DERMLVEPAC GAALAAIYSG LLRRLQAEGC 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


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

