

# Recombinant Full Length Human Serine Dehydratase-Like, His-tagged

**Cat. No.** SDSL-6886H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human SDSL protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 37.3 kDa.                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-329aa                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | SDSL 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 serine specific dehydratase that plays a role in protein metabolism. It has low serine dehydratase and threonine dehydratase activity. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 37.3 kDa (353aa), confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MGSMDGPVA EHAKQEPFHV VTPLLESWAL<br>SQVAGMPVFL KCENVQPSGS FKIRGIGHFC QEMAKKGCRRH LVCSSGGNAG<br>IAAAYAARKL GIPATIVLPE STSLQVVQRL QGEGAEVQLT GKVWDEANLR                                                                                                                                                                                                                                                                            |

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AQELAKRDGW ENVPPFDHPL IWKGHASLVQ ELKAVLRTPP GALVLAVGGG  
 GLLAGVVAGL LEVGWQHVPI IAMETHGAHC FNAAITAGKL VTLPDITSVA  
 KSLGAKTVAA RALECMQVCK IHSEVVEDTE AVSAVQQLD DERMLVEPAC  
 GAALAAIYSG LLRRLQAEGC LPPSLTSVVV IVCGGNNINS RELQALKTHL GQV

|                      |                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | >90% by SDS - PAGE                                                                                                                                   |
| <b>Applications</b>  | SDS-PAGE                                                                                                                                             |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 0.5mg/ml (determined by Bradford assay)                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | SDSL serine dehydratase-like [ Homo sapiens ]                                                                                                                                                                           |
| <b>Official Symbol</b> | SDSL                                                                                                                                                                                                                    |
| <b>Synonyms</b>        | SDSL; serine dehydratase-like; SDS RS1; SDH; L-serine deaminase; serine dehydratase 2; L-threonine dehydratase; serine dehydratase related sequence 1; L-serine dehydratase/L-threonine deaminase; TDH; SDH 2; SDS-RS1; |
| <b>Gene ID</b>         | 113675                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_138432                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_612441                                                                                                                                                                                                               |
| <b>UniProt ID</b>      | Q96GA7                                                                                                                                                                                                                  |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 12q24.21                                                                                                                              |
| <b>Pathway</b>             | L-serine degradation, organism-specific biosystem; glycine betaine degradation, organism-specific biosystem;                          |
| <b>Function</b>            | L-serine ammonia-lyase activity; L-threonine ammonia-lyase activity; lyase activity; molecular_function; pyridoxal phosphate binding; |

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