

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	1-329aa
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl.
Molecular Mass	37.3 kDa (353aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDGPVA EHAKQEPFHV VTPLLESWAL SQVAGMPVFL KCENVQPSGS FKIRGIGHFC QEMAKKGCRRH LVCSSGGNAG 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

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

GENE INFORMATION

Gene Name	SDSL serine dehydratase-like [Homo sapiens]
Official Symbol	SDSL
Synonyms	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;
Gene ID	113675
mRNA Refseq	NM_138432
Protein Refseq	NP_612441
UniProt ID	Q96GA7

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

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