

Recombinant Human SDS 293 Cell Lysate

Cat. No. SDS-2004HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for serine dehydratase (SDS) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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GENE INFORMATION

Gene Name	SDS serine dehydratase [Homo sapiens]
Official Symbol	SDS
Synonyms	SDS; serine dehydratase; L-serine dehydratase/L-threonine deaminase; SDH; TDH; L-serine deaminase; L-serine dehydratase; L-serine ammonia-lyase; L-threonine dehydratase;
Gene ID	10993
mRNA Refseq	NM_006843
Protein Refseq	NP_006834
MIM	182128
UniProt ID	P20132
Chromosome Location	12q24.21
Pathway	Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; L-serine degradation, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; glycine betaine degradation, organism-specific biosystem;
Function	L-serine ammonia-lyase activity; L-threonine ammonia-lyase activity; catalytic activity;

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lyase activity; protein homodimerization activity; pyridoxal phosphate binding;
pyridoxal phosphate binding;

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