

Active Recombinant Human SORD Protein

Cat. No. SORD-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SORD protein, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	SORD, also known as sorbitol dehydrogenase, is a member of the zinc-containing alcohol dehydrogenase family. It is widely expressed with highest expression in kidney and in the lens of the eye. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, such as sorbitol and xylitol, to their respective ketoses.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.5) containing 10% glycerol, 1mM DTT
Bio-activity	Specific activity is >15 units/mg, and is defined as the amount of enzyme that catalyze the reduction 1.0 umole of D-fructose to D-sorbitol per minute at pH 7.5 at 37C.
Molecular Mass	38.3kDa (357aa)
AA Sequence	MAAAAKPNNL SLVVGPGDL RLENYPIPEP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTLL VAKAMGAAQV VVTDLSATRL SKAKEIGADL VLQISKESQP EIARKVEGQL GCKPEVTIEC

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TGAEASIQAG IYATRSGGTL VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY
CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC
DPSDQNP

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name SORD sorbitol dehydrogenase [Homo sapiens]

Official Symbol SORD

Synonyms SORD; sorbitol dehydrogenase; L-iditol 2-dehydrogenase; SORD1;

Gene ID 6652

mRNA Refseq NM_003104

Protein Refseq NP_003095

MIM 182500

UniProt ID Q00796

Chromosome Location 15q15-q21.1

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Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; sorbitol degradation I, organism-specific biosystem;
Function	L-iditol 2-dehydrogenase activity; L-iditol 2-dehydrogenase activity; NAD binding; metal ion binding; oxidoreductase activity; sugar binding; zinc ion binding; zinc ion binding;

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