Recombinant Human Sorbitol Dehydrogenase, His-tagged

Cat. No. SORD-2490H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SORD protein, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques.MW = 40.4 kDa (377aa).
Species	Human
Source	E.coli
Description	SORD, also known as L-iditol 2-dehydrogenase or SORD1, is a 357 amino acid 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 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol.
Purity	> 90% by SDS – PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAAAAKPNNL SLVVHGPGDL RLENYPIPEP GPN E VLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVK HLKPGD RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPPDDGNLC RFYK HNAAFC YKLPDNVTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPI

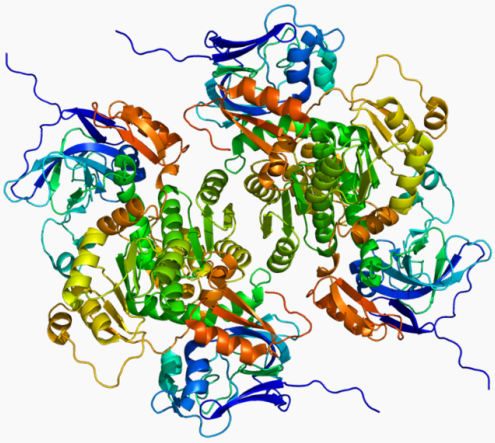
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	GMVTLL VAKAMGAAQV VVTDLSATRL SKAKEIGADL VLQISKESPQ EIARKVEGQL GCKP EVTIEC TGAEASIQAG IYATRSGGTL VLVGLGSEMT TVPLLHAAIR EVDIK GVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP.
Storage	can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	SORD sorbitol dehydrogenase [Homo sapiens]
Synonyms	sorbitol dehydrogenase; SORD1; SORD; sorbitol dehydrogenase; L-iditol 2-dehydrogenase; EC 1.1.1.14
Gene ID	6652
mRNA Refseq	NM_003104
Protein Refseq	NP_003095
MIM	182500
UniProt ID	Q00796
Chromosome Location	15q15.3
Pathway	Fructose and mannose metabolism; Metabolic pathways
Function	L-iditol 2-dehydrogenase activity; NAD or NADH binding; binding; metal ion binding;

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	oxidoreductase activity; sugar binding; zinc ion binding
PDB rendering based on 1pl6.	

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