

## Sorbitol Dehydrogenase Human Recombinant

<b>Item Number</b>	rAP-1014
<b>Synonyms</b>	EC 1.1.1.14, SORD1, SORD, L-iditol 2-dehydrogenase, DHSO, Sorbitol Dehydrogenase.
<b>Description</b>	SORD Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 377 amino acids (1-357 a.a.) and having a molecular mass of 40.4 kDa. SORD protein is fused to a 20 amino acid His tag at N-terminus and is purified by standard chromatography.
<b>Uniprot Accession Number</b>	Q00796
<b>Amino Acid Sequence</b>	MGSSHHHHHH SSGLVPRGSH MAAAAPNNL SLVVHGPGDL RLENYPIPEP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR ENDEF- CKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNTVFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTLL VAKAMGAAQV VVDLSATRL SKAKEIGADL VLQISKESQ EIARKVEGQL GCKPEVTIEC TGAEASIQAG IYATRSGGTL VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLK C DPSDQNP.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Formulation and Purity</b>	SORD protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl pH-8, 0.2M NaCl, 5mM DTT & 20% glycerol. Greater than 90% as determined by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	
<b>Biological Activity</b>	Specific activity is $\geq$ 0.2 units/mg, in which one unit will convert 1.0 umole of D-fructose to D-sorbitol per minute at pH 7.5 at 25°C.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**