

Sorbitol Dehydrogenase Human Recombinant

Item Number	rAP-1014
Synonyms	EC 1.1.1.14, SORD1, SORD, L-iditol 2-dehydrogenase, DHSO, Sorbitol Dehydrogenase.
Description	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.
Uniprot Accesion Number	Q00796
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAAAAKPNNL SLVVHGPGL RLENYPipeP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR ENDEF- CKMGR YNLSPSIFC ATPPDDGNLNC RFYKHNAACF YKLPDNVTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTL VAKAMGAAQV VVTDLSATRL SKAKEIGADL VLQISKESPQ EIARKVEGQL GCKPEVTIEC TGAEASIQAG IYATRSGGTL VLVGLGSEMT TVPLLHAIR EVDIKGVFY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP.
Source	Escherichia Coli.
Physical Appearance and Stability	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.
Formulation and Purity	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.
Application	
Solubility	
Biological Activity	Specific activity is > 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.
Shipping Format and Condition	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**