
Product Data Sheet

Product Name: SORD Human
 Cat. No.: GP22253
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	EC 1.1.1.14; SORD1;SORD; L-iditol 2-dehydrogenase; DHSO; Sorbitol Dehydrogenase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAAAAPNNL SLVVHGPDDL RLENYPIPEP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTL VAKAMGAAQV VVTDLSATRL SKAKEIGADL VLQISKESQP EIARKVEGQL GCKPEVTIEC TGAEASIQAG IYATRS GGTL VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP.		
Formulation	SORD protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl pH-8, 0.2M NaCl, 5mM DTT & 20% glycerol.		

Introduction

SORD enzyme is part of the zinc-containing alcohol dehydrogenase family that is broadly expressed in kidney and in the lens eye. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, such as sorbitol and xylitol, to their respective ketoses.

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 .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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