

General Sorbitol Dehydrogenase Assay Kit | SORD assay kit

Sorbitol Dehydrogenase Microplate Assay Kit

CATALOG # AAA261593	REACTIVITY General	APPLICATIONS Functional Assay
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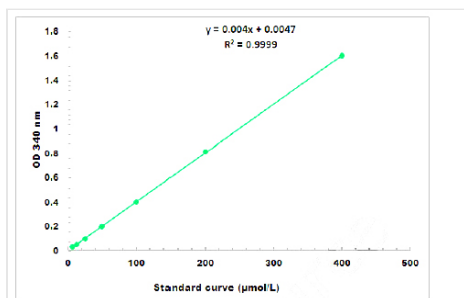
PRODUCT SYNONYMS

Sorbitol Dehydrogenase; Sorbitol Dehydrogenase Microplate Assay Kit; EC 1.1.1.14; Sorbitol dehydrogenase; SDH; SORD; L-iditol 2-dehydrogenase; Glucitol dehydrogenase; Polyol dehydrogenase; SORD assay kit

PRODUCT SPECIFICATIONS

Reactivity	General
Sequence Length	357
Samples	Urine, serum, plasma, tissue extracts, cell lysate, cell culture media and other biological fluids samples
Detection Range	4 umol/L - 400 umol/L
Applicable Applications for SORD assay kit	FA (Functional Assay)
Preparation and Storage	Shipped and store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for SORD assay kit

Background/Introduction: Sorbitol dehydrogenase (SDH), found in organisms from bacteria to humans, converts sorbitol, the sugar alcohol form of glucose, to fructose, and the zinc-dependent reaction uses NAD⁺ as a cofactor. Organs abundant in SDH activity include the liver, kidney, lens and seminal vesicle. SDH and aldose reductase (AR) form the polyol pathway that interconverts glucose and fructose. Since SDH activity promotes the formation of NADH, the redox change induced by elevated SDH may have a pathogenic role in certain disease state, making SDH a potential therapeutic target. In addition, SDH has a close evolutionary relationship with alcohol dehydrogenase (ADH). The assay is initiated with the enzymatic hydrolysis of the sorbitol by sorbitol dehydrogenase. The enzyme catalysed reaction products NADH, can be measured at a colorimetric readout at 340 nm.

NCBI AND UNIPROT INFORMATION

NCBI GI #	156627571
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NCBI GeneID	6652
NCBI Accession #	NP_003095.2
NCBI GenBank Nucleotide #	NM_003104.5
Molecular Weight	10,812 Da
NCBI Official Full Name	sorbitol dehydrogenase
NCBI Official Synonym Full Names	sorbitol dehydrogenase
NCBI Official Symbol	SORD
NCBI Official Synonym Symbols	SORD1; HEL-S-95n
NCBI Protein Information	sorbitol dehydrogenase
UniProt Protein Name	Sorbitol dehydrogenase
UniProt Gene Name	SORD
UniProt Entry Name	DHSO_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/general-assay-kits/sorbitol-dehydrogenase/261593>