

Human Recombinant SORD

CATALOG #:	6388-100	100 µg
ALTERNATE NAMES:	Sorbitol dehydrogenase	
SOURCE:	E.Coli	
PURITY:	> 90% by SDS - PAGE	
MOL. WEIGHT:	40.4 kDa (377 aa, 1-357 aa + NT His Tag)	
FORMULATION:	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 5 mM DTT and 20% glycerol.	

STORAGE CONDITIONS:

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.

DESCRIPTION:

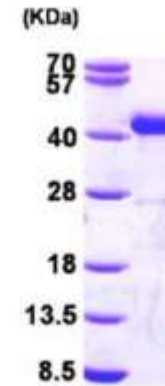
SORD, also known as L-iditol 2-dehydrogenase or SORD1, is a 357 amino acid member of the zinc containing alcohol dehydrogenase family. It is widely expressed with highest expression in kidney and in the lens of the eye. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, such as sorbitol and xylitol, to their respective ketoses.

AMINO ACID SEQUENCE:

MGSSHHHHHH SSGLVPRGSH MAAAAPNNL SLVVHGPGDL RLENYPIPEP
GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG
SSVKHLKPGD RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPPDDGNLC RFYKHNA AFC
YKLPDNTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG AGPIGMVTLL VAKAMGAAQV
VVTDLSATRL SKAKEIGADL VLQISKESQP EIARKVEGQL GCKPEVTIEC TGAEASIQAG
IYATRSGGTL VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP
LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP

BIOLOGICAL ACTIVITY:

Specific activity is > 1,200 pmol/min/ug, and is defined as the amount of enzyme that catalyzes D-fructose to D-sorbitol per minute at pH 7.5 at 37°C.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- D-Sorbitol Colorimetric Assay Kit (Cat. No. K631-100)

FOR RESEARCH USE ONLY! Not to be used in humans.