

# Recombinant Human SORD Protein (His Tag)

Catalog Number:PKSH033074



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

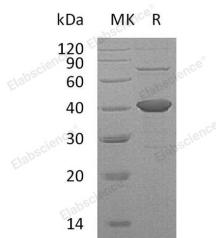
## Description

<b>Synonyms</b>	Sorbitol Dehydrogenase;L-Iditol 2-Dehydrogenase;SORD
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ala2-Pro357
<b>Accession</b>	AAH21085.1
<b>Calculated Molecular Weight</b>	39.3 kDa
<b>Observed molecular weight</b>	43 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 200mM NaCl, 5mM DTT, 20% Glycerol, pH 8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Sorbitol dehydrogenase, also known as L-iditol 2-dehydrogenase and SORD, is a member of the zinc-containing alcohol dehydrogenase family. SORD exists in a homotetramer and binds one zinc ion per subunit. SORD is expressed in kidney and epithelial cells of both benign and malignant prostate tissue. SORD can convert sorbitol to fructose and catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase to make up the sorbitol pathway. SORD is up-regulated by androgens and down-regulated by castration. SORD may play a role in the sperm motility by providing an energetic source for sperm.

## For Research Use Only

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