

## Recombinant Human SORD

Catalog No: C885

Description	Recombinant Human Sorbitol Dehydrogenase is produced by our Mammalian expression system and the target gene encoding Ala2-Pro357 is expressed with a 6His tag at the C-terminus.		
Source	Human Cells		
Alternative name	Sorbitol Dehydrogenase; L-Iditol 2-Dehydrogenase; SORD		
Accession No.	Q00796		
Formulation	Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,0.2M NaCl,5mM DTT,20% glycerol,pH8.0.		
Quality Control	Purity	Greater than 95% as determined by reducing SDS-PAGE.	
	Endotoxin	Less than 0.1 ng/µg (1 EU/µg)	
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.		
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.		
Amino Acid Sequence	AAAAKPNNLSLVVHGPGDLRLNYPPEPGPNEVLLRMHSGVIGCGSDVHYWEYGRIGNFIVKKPMVL GHEASGTVEKVGSSVK HLKPGDRVAIEPGAPRENDEFCKMGRYNLSPSIFFCATPPDDGNLCRFYKHNAAFICYKLPDNTFEE GALIEPLSVGIHACRRGG VTLGHKVLVCGAGPIGMVTLLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQISKESPQEIARKVE GQLGCKPEVTIECTGAE ASIQAGIYATRSGGTLVLVGLGSEMTTVPLLHAAIREVDIKGVFRYCNTPVPAISMLASKSVNVKPLVT HRFPLEKALEAFETFKK GLGLKIMLKCDPSDQNPVDHHHHHH		
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.		

### SDS-PAGE

