



# Recombinant Protein Technical Manual

## Recombinant Human SORD Protein (His Tag)

RPES0120

### Product Data:

**Product SKU:** RPES0120

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** Q00796

### Protein Information:

**Molecular Mass:** 39.3 kDa

**AP Molecular Mass:** 40-78 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** 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.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 0.2M NaCl, 5mM DTT, 20% glycerol, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Sorbitol Dehydrogenase; L-Iditol 2-Dehydrogenase; SORD

## Immunogen Information:

**Sequence:** Ala2-Pro357

## Background:

Sorbitol dehydrogenase, also known as L-idoitol 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.