

Recombinant Human SORD Protein (His Tag)

Catalog Number: PKSH033074

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

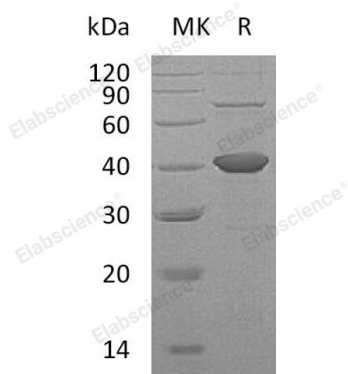
Description

Species	Human
Source	HEK293 Cells-derived Human SORD protein Ala2-Pro357, with an C-terminal His
Calculated MW	39.3 kDa
Observed MW	43 kDa
Accession	AAH21085.1
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein 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 Tris-HCl, 200mM NaCl, 5mM DTT, 20% Glycerol, pH 8.0.

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.