Recombinant Mouse Sord Protein, Myc/DDK-tagged

Cat. No. Sord-6046M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sorbitol dehydrogenase (Sord), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Polyol dehydrogenase that catalyzes the reversible NAD+-dependent oxidation of various sugar alcohols. Is active with D-sorbitol (D-glucitol) leading to the C2-oxidized product D-fructose. Is a key enzyme in the polyol pathway that interconverts glucose and fructose via sorbitol, which constitutes an important alternate route for glucose metabolism. May play a role in sperm motility by using sorbitol as an alternative energy source for sperm motility and protein tyrosine phosphorylation. Has no activity on ethanol. Cannot use NADP+ as the electron acceptor.
Molecular Mass	38.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Sord sorbitol dehydrogenase [Mus musculus (house mouse)]
Official Symbol	Sord
Synonyms	SORD; sorbitol dehydrogenase; L-iditol 2-dehydrogenase; sorbitol dehydrogenase 1; Sdh1; Sdh-1; Sodh-1; MGC31355
Gene ID	20322
mRNA Refseq	NM_146126
Protein Refseq	NP_666238
UniProt ID	Q64442

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