

Recombinant Human SORD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SORD-5389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SORD MS Standard C13 and N15-labeled recombinant protein (NP_003095) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Sorbitol dehydrogenase (SORD; EC 1.1.1.14) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase (ALDR1), makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications. The first reaction of the pathway (also called the polyol pathway) is the reduction of glucose to sorbitol by ALDR1 with NADPH as the cofactor. SORD then oxidizes the sorbitol to fructose using NAD(+) cofactor.
Molecular Mass	38.3 kDa
AA Sequence	MAAAAKPNNLSLVVHGPGDLRLNYPPEPGPNEVLLRMHSVGICGSDVHYWEYGR IGNFIVKKPMVLGHEASGTVEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGRYN LSPSIFFCATPPDDGNLCRFYKHNAAFCYKLPDNTFEEGALIEPLSVGIHACRRGGV TLGHKVLVCGAGPIGMVTLLVAKAMGAAQVVVTDLSATRLSKAKEIGADLVLQISKES PQEIARKVEGQLGCKPEVTIECTGAEASIQAGIYATRSGGTLVLVGLGSEMTTVPLLH AAIREVDIKGVFRYCNTWPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGL KIMLKCDPSDQNPTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	SORD sorbitol dehydrogenase [Homo sapiens (human)]
Official Symbol	SORD
Synonyms	SORD; sorbitol dehydrogenase; L-idoitol 2-dehydrogenase; SORD1;
Gene ID	6652
mRNA Refseq	NM_003104
Protein Refseq	NP_003095
MIM	182500
UniProt ID	Q00796

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