

Product datasheet for PH300415

Sorbitol Dehydrogenase (SORD) (NM_003104) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SORD MS Standard C13 and N15-labeled recombinant protein (NP_003095)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200415
Predicted MW:	38.3 kDa
Protein Sequence:	>RC200415 protein sequence Red=Cloning site Green=Tags(s)
	MAAAAKPNNLSLVHGPGLRLENYPIPEPGPNEVLLRMHSVGICGSDVHYWEYGRIGNFIVKKPMVLGH EASGTVEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGRYNLSPSIFFCATPPDDGNLCRFYKHNA AFC YKLPDNVTFEEGALIEPLSVGIHACRRGGVTLGHKVLVCGAGPIGMVTLVAKAMGAAQVVVTDLSATRL SKAKEIGADLVLQISKESPQEIARKVEGQLGCKPEVTIECTGAEASIQAGIYATRSGGTLVLVGLGSEMT TVPLLLHAAIREVDIKGVFRYCNTPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGLKIMLKC DPSDQNP
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003095</u>
RefSeq Size:	2813
RefSeq ORF:	1071
Synonyms:	HEL-S-95n; RDH; SDH; SORD1; SORDD; XDH
Locus ID:	6652



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UniProt ID: [Q00796](#)

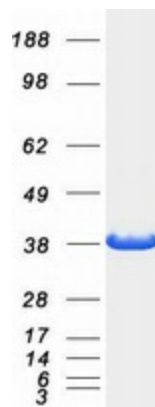
Cytogenetics: 15q21.1

Summary: Sorbitol dehydrogenase (SORD; EC 1.1.1.14) catalyzes the interconversion of polyols and their corresponding ketoses, and together with aldose reductase (ALDR1; MIM 103880), makes up the sorbitol pathway that is believed to play an important role in the development of diabetic complications (summarized by Carr and Markham, 1995 [PubMed 8535074]). 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.[supplied by OMIM, Jul 2010]

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified SORD protein (Cat# [TP300415]). The protein was produced from HEK293T cells transfected with SORD cDNA clone (Cat# [RC200415]) using MegaTran 2.0 (Cat# [TT210002]).