

Product datasheet for TP505452

Sord (NM_146126) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse sorbitol dehydrogenase (Sord), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205452 protein sequence Red =Cloning site Green =Tags(s)
	MAAPAKGENLSLVHGPDIRLENYPIPELGPNDVLLKMHSVIGICGSDVHYWEHGRIGDFVVKKPMVLGH EAAGTVTKVGELVKHLKPGDRVAIEPGVPREVDEYCKIGRYNLPTIFFCATPPDDGNLCRFYKHNAFC YKLPDSVTFEEGALIEPLSVGIYACRRGSVSLGNKVLVCGAGPVMVTLVAKAMGAAQVVVTDLSASRL TKAKEVGADFTIQVGKETPQEIASKVESLLGSKPEVTIECTGAESSVQTGIYATHSGGTLVIVGMGAEMV NLPLVHAAIREVDIKGVFRYCNTPMAISMLASKTLNVKPLVTHRFPLEKAVEAFETAKKGVGLKVMIKC DPNDQNP
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	38.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_666238
Locus ID:	20322
UniProt ID:	Q64442



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RefSeq Size: 2259

Cytogenetics: 2 60.59 cM

RefSeq ORF: 1074

Synonyms: Sdh-1; Sdh1; Sodh-1

Summary: Polyol dehydrogenase that catalyzes the reversible NAD(+)-dependent oxidation of various sugar alcohols (By similarity). Is active with D-sorbitol (D-glucitol) leading to the C2-oxidized product D-fructose (PubMed:6852349). Is a key enzyme in the polyol pathway that interconverts glucose and fructose via sorbitol, which constitutes an important alternate route for glucose metabolism (By similarity). May play a role in sperm motility by using sorbitol as an alternative energy source for sperm motility and protein tyrosine phosphorylation (PubMed:18799757). Has no activity on ethanol. Cannot use NADP(+) as the electron acceptor (PubMed:6852349).[UniProtKB/Swiss-Prot Function]