

SORD, 1-357aa, Human, His tag, E.coli

Cat.NO.: TP04006

3th Edition

Synonyms:, Sorbitol dehydrogenase L iditol 2 dehydrogenase, SDH, SORD, SORD 1, SORD1

Description:SORD, also known as L-iditol 2-dehydrogenase or SORD1, is a 357 amino acid member of the zinc-containing alcohol dehydrogenase family. It is widely expressed with highest expression in kidney and in the lens of the eye. SORD enzymatically catalyzes the zinc-dependent interconversion of polyols, such as sorbitol and xylitol, to their respective ketoses. Recombinant human SORD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 20% glycerol

Molecular Weight:40.4 kDa (377aa) confirmed by MALDI-TOF

Sequences:

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MGSSHHHHHSSGLVPRGSHMAAAKPNLNSLVVHGPGDLRLNYPPEPGPNEVLLRMHSVGICGSDVHYWEY
GRIGNFIVKKPMVLGHEASGTVEKVGSSVKHLKPGDRVAIEPGAPRENDEFCKMGRYNLSPSIFFCATPPDDGNLC
RFYKHNAAFICYKLPDNTFEEGALIEPLSVGIHACRRGGVTLGHKVLVCGAGPIGMVTLVAKAMGAAQVVVTDLS
ATRLSKAKEIGADLVLQISKESPQEIARKVEGQLGCKPEVTIECTGAEASIQAGIYATRSGGTLVLVGLGSEMTTVPLL
HAAIREVDIKGVFRYCNTWPVAISMLASKSVNVKPLVTHRFPLEKALEAFETFKKGLGLKIMLKCDPSDQNP
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Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.