

Product information

SORD, 1-357aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP3293

NCBI Accession No.: NP_003095.1

Synonyms: SORD1

Description: SORD, also known as sorbitol dehydrogenase, is a 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, was expressed in *E.coli* and purified by using conventional chromatography techniques.

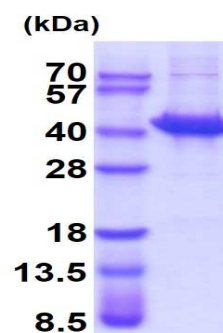
Form: Liquid. In 20mM Tris-HCl buffer(pH 8.5) containing 10% glycerol, 1mM DTT

Molecular Weight: 38.3kDa (357aa)

Purity: > 90% by SDS - PAGE

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

Biological activity: Specific activity is > 15 units/mg, and is defined as the amount of enzyme that catalyze the reduction 1.0 umole of D-fructose to D-sorbitol per minute at pH 7.5 at 37C.



15% SDS-PAGE (3ug)

Sequences of amino acids:

MAAAKPNL SLVVHGPDL RLENYPIPEP GPNEVLLRMH SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD
RVAIEPGAPR ENDEFCKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNTFE EGALIEPLSV GIHACRRGGV TLGHKVLVCG
AGPIGMVTLL VAKAMGAQV VTDLSATRL SKAKEIGADL VLQISKESQP EIARKVEGQL GCKPEVTIEC TGAESIQAQ IYATRSGGTL
VLVGLGSEMT TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK GLGLKIMLKC DPSDQNP

General references:

Baker MA., *et al.* (2010) *Proteomics*. 10(3):482-95.

Sorger D., *et al.* (2009) *Nucl Med Biol*. 36(1):17-27.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.