

AR09511PU-N

Human SORD (1-357, His-tag) - Purified

Alternate names:

L-iditol 2-dehydrogenase, Sorbitol dehydrogenase

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q00796](#)

NCBI:

[AAH25295](#)

GeneID:

[6652](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2 M NaCl, 5 mM DTT, 20% glycerol

Description:

Recombinant human SORD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAAAKPNNL SLVVHGPGL RLENYPIPEP GPNEVLLRMH
SVGICGSDVH YWEYGRIGNF IVKKPMVLGH EASGTVEKVG SSVKHLKPGD RVAIEPGAPR
ENDEFCKMGR YNLSPSIFFC ATPDDGNLC RFYKHNA AFC YKLPDNVTFE EGALIEPLSV
GIHACRRGGV TLGHKVLVCG AGPIGMVTLL VAKAMGAAQV VVTDLSATRL SKAKEIGADL
VLQISKESPP EIARKVEGQL GCKPEVTIEC TGAEASIQAG IYATRSGGTL VLVGLGSEMT
TVPLLHAAIR EVDIKGVFRY CNTWPVAISM LASKSVNVKP LVTHRFPLEK ALEAFETFKK
GLGLKIMLK C DPSDQNP

Specific Activity: > 0.2 units/mg Specific activity is > 20,000 pmol/min/ug, and is defined as the amount of enzyme that catalyze D-fructose to D-sorbitol per minute at pH 7.5 at 37°C.

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

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

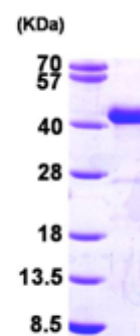
Shelf life: one year from despatch.

General Readings:

1. Baker MA., et al. (2010) Proteomics. 10(3):482-95.
2. Sorger D., et al. (2009) Nucl Med Biol. 36(1):17-27.

Pictures:

Recombinant human SORD, 1-357 aa, His-tagged



15% SDS-PAGE (3ug)